



		<b>Sicherheitspolitik Schweiz und Air2030</b>
rené.zuercher@ hotmail.com	«Schweizer Luftwaffe Evaluieren Erproben Entscheiden»	<p>Ein «Must» für jeden Freund der Schweizer Luftwaffe, Aviatikinteressierten und sicherheitspolitisch engagierten Schweizer! Brandaktuell auch im Lichte des laufenden Auswahlverfahrens für ein neues Kampfflugzeug!</p> <ul style="list-style-type: none"> <li>° Die Geschichte der Flugzeugbeschaffungen in der Schweiz seit 1946</li> <li>° Rund 100 Flugzeuge und Helikopter</li> <li>° Rund 300 Schwarz-weiss und Farb-Bilder, zum grössten Teil noch nie veröffentlicht</li> <li>° Detaillierte Listen aller Evaluationen und Erprobungen</li> <li>° Detaillierte Listen aller beschafften Flugzeuge und Helikopter in dieser Zeitspanne</li> </ul> <p>200 Seiten, A4, soft-cover Buch, ISBN 978-3-907041-78-9, CHF 49.—inkl. Porto und Verpackung, Lieferung mit B-Post inkl. Einzahlungsschein</p> <p><b>Bestellung per Mail mit kompletter Adressangabe Auftraggeber/Empfänger an:</b>  <a href="mailto:rene.zuercher@hotmail.com">rene.zuercher@hotmail.com</a></p>
promilitia.ch Mai 2021	Armeebudget: Versprechen einhalten	<p>Andere rüsten auf: Was tut die Schweiz? Die Armee und ihre Zukunft</p> <p><i>(Vollständiger Beitrag abrufbar unter:  <a href="https://www.promilitia.ch/_Resources/Persistent/1/8/0/c/180c59d3b49d8f2770b53f9b935fd16fffaed418/2101-zeitung.pdf">https://www.promilitia.ch/_Resources/Persistent/1/8/0/c/180c59d3b49d8f2770b53f9b935fd16fffaed418/2101-zeitung.pdf</a>)</i></p>
blick.ch 06.05.2021	Billiger und klimafreundlicher - Jetzt will die SP einen Bio- Bomber	<p>Welchen Kampfjet soll die Schweiz kaufen? Kurz bevor der Bundesrat die Typenwahl trifft, zaubert die SP einen neuen Vorschlag aus dem Hut: Es soll ein günstigerer Jet sein – und ein klimafreundlicherer.</p> <p><i>(Vollständiger Beitrag abrufbar unter:  <a href="https://www.blick.ch/politik/billiger-und-klimafreundlicher-jetzt-will-die-sp-einen-bio-bomber-id16506317.html">https://www.blick.ch/politik/billiger-und-klimafreundlicher-jetzt-will-die-sp-einen-bio-bomber-id16506317.html</a>)</i></p> <p><i>(Anmerkung Redaktion: 2019 wollte uns Priska Seiler-Graf, SP-Vertreterin in der SiK NR, nach einem «Mailand-Reisli» ein aufgemotztes Schulflugzeug der Klasse M-346FA «auf die Augen drücken». Nun wirbt sie – wohl in der Hoffnung auf ein «Schweden-Reisli» - für den Gripen C/D, der in den nächsten Jahren von der schwedischen Luftwaffe durch die leistungsfähigere E-Version abgelöst wird. Ehrlicher wäre es und stände NR Seiler-Graf und der SP Schweiz als einer Bundesratspartei mit einer besonderen Verantwortung für den Schutz und die Sicherheit unseres Landes und seiner</i></p>

		<i>Bevölkerung wohl an, wenn man auf das Werfen von Nebelpetarden verzichten und zugeben würde, dass man aus ideologischen Gründen überhaupt kein werthaltiges, neues Kampfflugzeug beschaffen will.)</i>
f35.com 04.05.2021	F-35 Lightning II Program Status and Fast Facts	Infographic abrufbar unter: <a href="https://www.f35.com/content/dam/lockheed-martin/aero/f35/documents/FG21-00000_001%20F35FastFacts5_2021.pdf">https://www.f35.com/content/dam/lockheed-martin/aero/f35/documents/FG21-00000_001%20F35FastFacts5_2021.pdf</a>
vtg.admin.ch 04.05.2021	Schweizer Luftwaffe misst sich mit internationalen Partnern	Im Rahmen des Tiger-Meet stellt sich die Schweizer Luftwaffe in Portugal dem direkten Vergleich mit internationalen Partnern. Dabei können die Piloten Missionen trainieren, die in der Schweiz selten bis gar nicht geflogen werden können, wertvolle Erfahrungen sammeln und Optimierungschancen im Rahmen der taktischen Verfahren identifizieren.  <i>(Vollständiger Beitrag abrufbar unter: <a href="https://www.vtg.admin.ch/de/armee.detail.news.html/vtg-internet/verwaltung/2021/21-05/210504-tiger-meet.html?fbclid=IwAR2llo-te-2LdFDikEIM-fZXzVLqZZM8mL-ZU1-b4PRnj17JD7IXJ84fhSo">https://www.vtg.admin.ch/de/armee.detail.news.html/vtg-internet/verwaltung/2021/21-05/210504-tiger-meet.html?fbclid=IwAR2llo-te-2LdFDikEIM-fZXzVLqZZM8mL-ZU1-b4PRnj17JD7IXJ84fhSo</a>)</i>
nzz.ch 03.05.2021	INTERVIEW Viola Amherd über den Kampffjet: «Ich könnte nicht vertreten, dass wir aus politischen Gründen ein Flugzeug kaufen, das viel teurer oder viel schlechter ist»	Vor den Sommerferien fällt der Bundesrat den Typenentscheid für ein neues Kampfflugzeug. Die Chefin des Verteidigungsdepartements verspricht im Interview mit der NZZ grösstmögliche Transparenz.  <i>«Die Basis ist ganz klar das Kosten-Nutzen-Verhältnis. Ich könnte es nicht vertreten, dass wir aus politischen Gründen ein Flugzeug kaufen, das viel teurer oder viel schlechter ist als ein anderes. Aber wenn Kosten und Nutzen bei den verschiedenen Typen vergleichbar sind, stellen wir auch politische Überlegungen an.»</i>  <i>«Mir ist wichtig, dass nachvollziehbar ist, für welchen Flugzeugtyp sich der Bundesrat entschieden hat. Das müssen wir transparent erklären. Falls wir nicht das Kampfflugzeug nehmen, bei dem Preis und Nutzen im besten Verhältnis stehen, werden wir aufzeigen, welche sicherheitspolitischen Überlegungen dahinterstecken.»</i>  <i>«Es ist gar nicht so einfach, ein komplexes Thema so darzustellen, dass es auch alle verstehen.»</i>  <i>(Vollständiges Interview abrufbar unter: <a href="https://www.nzz.ch/schweiz/viola-amherd-zum-kampffjet-wir-halten-das-nicht-geheim-ld.1614774">https://www.nzz.ch/schweiz/viola-amherd-zum-kampffjet-wir-halten-das-nicht-geheim-ld.1614774</a>)</i>  <i>(Anmerkung Redaktion: Bis auf den Abschnitt «Ich habe nur ein Probekapitel gesehen, und das war schwer verständlich» ein überzeugendes, werthaltiges Interview unserer Bundesrätin.)</i>

<p>admin.ch 03.05.2021</p>	<p>RUAG nimmt neuen Standplatz in Payerne in Betrieb</p>	<p>Die Aufbauarbeiten für den neuen Standplatz der RUAG AG auf dem Militärflugplatz Payerne sind abgeschlossen. Anfang April konnte die neu gebildete Equipe den ersten F/A-18 übernehmen und mit der Arbeit beginnen. Begonnen hatte der Aufbau in Zusammenarbeit mit der Schweizer Luftwaffe im Mai 2020, und von den insgesamt zwölf neu geschaffenen Arbeitsplätzen konnten alle besetzt werden.</p> <p><i>(Vollständige Medienmitteilung abrufbar unter: <a href="https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-83362.html">https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-83362.html</a>)</i></p>
<p>admin.ch 30.04.2021</p>	<p>Erfolgreiche Bereitschaftsüberprüfung der Luftwaffe</p>	<p>Seit Ende des Jahres 2020 stellt die Luftwaffe der Schweizer Armee den Luftpolizeidienst rund um die Uhr sicher. Gestern hat das Kommando Operationen, welchem die Luftwaffe unterstellt ist, diese Bereitschaft in Form eines Alarmstartes ab dem Flugplatz Payerne erfolgreich überprüft. Die definierten Zeit- und Zielvorgaben konnten allesamt erfüllt werden.</p> <p><i>(Vollständige Medienmitteilung abrufbar unter: <a href="https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-83335.html">https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-83335.html</a>)</i></p>
<p>sog.ch 30.04.2021</p>	<p>„Top-Projekte VBS“ 2021 – eine insgesamt durchgezogene Bilanz</p>	<p>Der am 1. April 2021 publizierte Bericht legt die Entwicklung der wichtigsten Projekte transparent und nachvollziehbar dar, analog den früheren Berichten seit 2017. So können die Projekte auch über die Zeit gut verglichen werden. Die Schweizerische Offiziersgesellschaft (SOG) sieht zwar viele von ihnen auf Kurs, sorgt sich aber bei einigen über etliche, gravierende Beschaffungsprobleme. So verspätet sich das Projektende laut VBS-Bericht ausgerechnet bei den beiden Beschaffungs-Sorgenkindern 12 cm-Mörser 16 (2026) und Aufklärungsdrohnensystem 15 (ADS 15) (Mitte 2022) weiter.</p> <p><i>(Vollständige Stellungnahme von Oberst i Gst Stefan Holenstein, Präsident SOG. Erschienen in der ASMZ-Ausgabe 05-2021 abrufbar unter: <a href="https://sog.ch/2021/04/7052/">https://sog.ch/2021/04/7052/</a>)</i></p>
<p>ar.admin.ch 29.04.2021</p>	<p>Flugfeldlöschfahrzeug 6x6 – FFLF 6x6</p>	<p>Die bestehende Flotte hat ihre Nutzungsdauer erreicht. Mit der Beschaffung von Flugfeldlöschfahrzeugen 6x6 (FFLF 6x6) soll die bestehende Flotte ersetzt werden. Es werden insgesamt 19 FFLF beschafft.</p> <p><i>(Vollständiger Bericht abrufbar unter: <a href="https://www.content/ar-internet/de/home.detail.news.html/ar-internet/news-2021/mitteilungen-allgemein/projekt-flugfeldloeschfahrzeug.html">https://www.content/ar-internet/de/home.detail.news.html/ar-internet/news-2021/mitteilungen-allgemein/projekt-flugfeldloeschfahrzeug.html</a>)</i></p>

admin.ch 29.04.2021	Neuer Bericht zur Sicherheitspolitik der Schweiz	Die Sicherheitslage ist weltweit und auch in Europa instabiler geworden. Die Schweiz will ihre Sicherheitspolitik noch stärker auf das veränderte Umfeld und neue Bedrohungen ausrichten. Vor diesem Hintergrund und ausgehend von einer umfassenden Analyse der Lage legt der neue Sicherheitspolitische Bericht die Interessen und Ziele der Schweizer Sicherheitspolitik für die nächsten Jahre fest. Der Bundesrat hat an seiner Sitzung vom 28. April 2021 die Vernehmlassung des Berichtes eröffnet.  <i>(Vollständiger Bericht abrufbar unter: <a href="https://www.newsd.admin.ch/newsd/message/attachments/66386.pdf">https://www.newsd.admin.ch/newsd/message/attachments/66386.pdf</a>)</i>
nzz.com 29.04.2021	Kampfansage an Cyberangriffe und Fake-News: Der Bundesrat will eine breite Diskussion über die Sicherheitspolitik	Der sicherheitspolitische Bericht 2021 ist eine Momentaufnahme unserer Zeit. Die Stossrichtung des Bundesrats stimmt, er vermeidet es aber, Klartext über ein Worst Case-Szenario zu sprechen. Eine Analyse.  <i>(Vollständige Analyse von Georg Häsler Sansano, Bern abrufbar unter: <a href="https://www.nzz.ch/schweiz/bundesrat-stellt-neuen-sicherheitspolitischen-bericht-vor-ld.1614558">https://www.nzz.ch/schweiz/bundesrat-stellt-neuen-sicherheitspolitischen-bericht-vor-ld.1614558</a>)</i>
admin.ch 28.04.2021	Alimentierung von Armee und Zivilschutz: Zweiteilung des Berichts	An seiner Sitzung vom 28. April 2021 hat das VBS den Bundesrat informiert, dass der Bericht zur Alimentierung der Bestände von Armee und Zivilschutz und einer längerfristigen Weiterentwicklung des Dienstpflichtsystems in zwei Teilen erarbeitet wird. Der Teil zur Alimentierung wird wie vorgesehen im Sommer 2021 vorliegen und kurz- und mittelfristige Massnahmen und Optionen zur Verbesserung schwergewichtig der Zivilschutzbestände enthalten. Überlegungen zu einer längerfristigen Weiterentwicklung des Dienstpflichtsystems werden in einem zweiten Teil des Berichts voraussichtlich bis Ende 2021 vorliegen.  <i>(Vollständige Medienmitteilung abrufbar unter: <a href="https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-83274.html">https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-83274.html</a>)</i>
airbus.com 28.04.2021	Allegra 2021 05	Der Airbus Newsletter für Schweizer Medienschaffende. <i>(Abrufbar als Beilage im Anhang zu diesem NACHBRENNER-Versandmail)</i>
		<b>Luft- und Marineluftstreitkräfte sowie strategische und weitere luftgestützte Einsatzmittel</b>
pna.gov.ph 07.05.2021	PHL:	The program for the acquisition of multi-role fighter (MRF) aircraft remains on track as these aircraft are urgently needed in defending the country's airspace, Department of National Defense (DND) Secretary Delfin

	Multi-role jet fighters acquisition program on track	Lorenzana said. The DND is looking to acquire at least 12 MRF units to beef up the Philippine Air Force's (PAF) air defense capabilities. The DND has yet to make public the MRFs it is eyeing to acquire for the PAF. However, reports said the American Lockheed Martin F-16V "Viper", which is considered the latest and most advanced F-16 variant, and the Swedish Saab JAS-39 "Gripen" are among those eyed by the agency. Lorenzana assured that the DND is fully supportive of the PAF's strategic goals in developing a credible air defense posture in line with its "Flight Plan 2028".
tass.com 06.05.2021	RUS: Russia's latest MiG-35 multirole fighter at final stage of trials	Russia's latest Mikoyan MiG-35 generation-4++ multirole fighter jet is undergoing its final state trials, Director of the MiG-29M, MiG-35 and Light Multi-Purpose Frontline Aircraft Programs Directorate at the MiG Aircraft Corporation Musheg Baloyan told TASS on Thursday. "The MiG-35 is at the stage of state joint trials and a preliminary certificate has been obtained for launching the production of a pilot batch of the aircraft."
janes.com 06.05.2021	IRQ: Iraqi Su-25s, UAVs grounded because of lack of spares	Iraq's Russian-made Su-25 ground-attack aircraft and Chinese-made CH-4 unmanned aerial vehicles (UAVs) are currently grounded owing to a lack of spare parts, according to a report released by the US Department of Defense's Office of Inspector General (OIG) on 4 May. The report, which reviewed the progress of Operation 'Inherent Resolve' (OIR) in Iraq and Syria from 1 January to 31 March, cited the US-led coalition as saying the Su-25s "did not fly during the quarter due to a lack of available parts and funds" and that the CH-4s were last flown in September 2019 because they are awaiting parts from China.
reuters.com 06.05.2021	Bipartisan U.S. senators pen support for funding of F-35 jet	<p>Twenty US senators from both parties wrote a letter to the heads of the Appropriations and Armed Services committees supporting Lockheed Martin Corp's F-35 jet, which has suffered from cost overruns and delays. In the May 5 letter, seen by Reuters, the senators urged funding of modernization and sustainment plans for the jet, which has struggled to meet targeted cost-per-flying-hour goals as well as mission capability rates. The letter comes ahead of the release of the detailed version of the Pentagon's 2022 budget request in the coming weeks and follows a similar letter signed by 132 members of the US House of Representatives from April 28.</p> <p>Pentagon officials, executives from Lockheed, the jet's prime contractor, and Raytheon Technologies Corp's Pratt and Whitney division, which makes the F-35 engine, testified before the House Armed Services Committee on April 20 about the jet's strengths and weaknesses. During the testimony the executives said they were working to rectify deficiencies in the program that ran the gambit from slow software updates for the jet and its systems, to early deterioration of parts like fan blades and the pilot's canopy. Lockheed plans to deliver between 133 and 139 of the jets this year. The senators noted, "near-peer adversaries like China and Russia</p>

		continue to advance their air defense systems, develop their own 5th generation fighters, and invest heavily in emerging technologies that threaten America's military edge."
economictimes. indiatimes.com 05.05.2021	IND: Three more Rafales head for India; to take IAF's count to 21	The sixth batch of three more Rafale fighter jets took off from France for India on Wednesday, the Indian embassy in France said. They will be part of the Indian Air Force's second squadron of the Rafale jets. After the arrival of the new batch, the number of Rafale jets with the IAF will go up to 21. The new squadron of Rafale jets will be based in Hasimara airbase in West Bengal. The first Rafale squadron is based in Ambala air force station. A squadron comprises around 18 aircraft.
timesofisrael.com 04.05.2021	EGY: Egypt to buy 30 Rafale fighter jets from France	France has agreed to sell 30 more Rafale fighter jets to Egypt, a source close to the contract said on Monday, confirming an online report of a secret mega-defense deal. Investigative site Disclose, citing confidential documents it had obtained, said the deal had been signed on April 26 at the behest of Egyptian President Abdel Fattah el-Sissi as part of defense contracts worth almost four billion euros (\$4.8 billion). It said that the deal consisted of three distinct contracts, by far the biggest being the 3.75-billion-euro (\$5.52 billion) purchase of 30 Rafale fighter jets from French producer Dassault. Two contracts were also given to MBDA and Safran, which both produce equipment for missiles. The total volume of the transactions was thus 3.95 billion euros (\$4.76 billion), it said. Egypt was the first foreign country to purchase the Rafale jets in 2015, buying 24.  Purchases by Qatar, India and Greece have turned the plane into one of France's main defense industry successes.
navalnews.com 03.05.2021	DEU: Germany Seemingly Selects P-8A Poseidon Over ATL2 As 'Interim' Replacement For P-3C MPA	According to official documents, Parliamentary State Secretary Thomas Silberhorn, the German Armed Forces (Bundeswehr) would have selected the Boeing P-8A Poseidon as an interim solution to the replacement of the soon to be retired P-3C Maritime Patrol Aircraft of the German Navy. Questions remain on whether this P-8A procurement plan, which has yet to be approved by the budget commission and supported by the parliament, will truly be a "temporary stop-gap" solution or a full fledged alternative to the MAWS (Maritime Airborne Warfare System) program. For the record, the United States' State Department in March 2021 approved a possible Foreign Military Sale (FMS) to Germany of five Boeing P-8A Maritime Patrol Aircraft (MPA) and associated support, and related equipment, for an estimated cost of \$1.77 billion.
airforcemag.com 03.05.2021	USAF: Seymour Johnson Receives USAF's 45th KC-46	The 916th Air Refueling Wing at Seymour Johnson Air Force Base, North Carolina, on April 30 received the Air Force's 45th KC-46 Pegasus. Boeing had missed multiple deadlines to deliver the tanker in the weeks beforehand. The KC-46, tail number 18-6055, brings the wing's total fleet of KC-46s to six, the wing announced. The delivery—the first since early February—means the Air Force has accepted three of the aircraft so far this

		<p>year. Air Mobility Command said in February it had slowed the rate by which it would accept the aircraft because they are not yet fully operational and there is a lack of qualified crews to fly them. Meanwhile, the command announced that it would free up some KC-46s for limited operational missions as assigned by U.S. Transportation Command. TRANSCOM has said this could happen as soon as June.</p>
<p>focustaiwan.tw 02.05.2021</p>	<p>TWN: Taiwan warned to monitor China's development of new refueling aircraft</p>	<p>A Taiwanese military expert has advised the nation's armed forces to closely monitor China's development of a new refueling tanker aircraft, warning that it would significantly boost the Chinese air force's capability to carry out long-range raids. Ou Si-fu (歐錫富), a research fellow at the Institute for National Defense and Security Research (INDSR), said in an online article on April 28 that China is in the process of developing a refueling tanker variant of its Y-20 military transport aircraft, known as the Y-20U. The Y-20 has a maximum take-off weight of 220 tons, and the refueling version is expected to be able to carry up to 60 tons of fuel, more than three times the maximum capacity of the indigenous H-6U, which is currently used for air-to-air refueling, Ou said the article. According to foreign media reports, China's People's Liberation Army (PLA) has roughly 24 Xian H-6Us, as well as three Il-78 refueling aircraft obtained from Ukraine. According to Ou, one round of aerial refueling is expected to widen the combat radius of China's H-6N bombers by 25 to 30 percent, boost that of its J-8 and J-10 fighters by 30 to 40 percent, and give its Y-9 transport planes a 100 percent increase in combat radius.</p>
<p>reuters.com 01.05.2021</p>	<p>FRAU/DEU/ESP: Germany, France, Spain aim for fighter jet agreement next week</p>	<p>Last week, the defence ministers of Germany and France set an end-April deadline to broker a deal over the Future Combat Air System (FCAS), Europe's largest defence project. "No agreement over the use of the intellectual property rights has been found yet," a German ministry spokeswoman said. "For Germany, unrestricted access to the results of the jointly financed research is of utmost importance." The countries were aiming for an agreement next week, she added. She said negotiations were continuing and it remained Germany's goal to present a proposal to the parliament's budget committee in June.</p> <p>Dassault Aviation (AVMD.PA), Airbus (AVMD.PA) and Indra (IDR.MC) are involved in the scheme to start replacing France's Rafale and German and Spanish Eurofighters from 2040. Earlier this week, MTU Aero (MTXGn.DE), Safran (SAF.PA) and ITP Aero solved their row about the development and production of the jet's engines, agreeing to share the workload evenly between the three companies.</p>
<p>saab.com 30.04.2021</p>	<p>FIN: Saab Delivers its Best and Final Offer for Finland</p>	<p>Saab has, with strong support from the Swedish Government, submitted its Best and Final Offer (BAFO) to the Finnish defence procurement agency for the Finnish HX fighter procurement. The proposal comprises 64 Gripen E fighter aircraft and an extensive weapons package, as well as two GlobalEye Airborne Early Warning &amp; Control (AEW&amp;C) aircraft. This constitutes the response to the customer's January 2021 request for a BAFO. Finland is</p>

		replacing the capability provided by its current fleet of F/A-18 C/D Hornet aircraft. GlobalEye brings unique additional sensor capabilities - for joint operations with Gripen as well as providing benefits for the entire Finnish defence forces. As a strategic asset, GlobalEye will serve across the entire operational spectrum, providing vital information for Finland. The combined effect of Gripen and GlobalEye will be very powerful. The offering includes some of the most advanced weapons, such as the Meteor for air targets at medium to long distance, the IRIS-T for air targets at short distance, SPEAR for ground targets at medium distance and the KEPD350/Taurus for long-range strike missions against ground targets.
defenceweb.co.za 30.04.2021	NGA: Nigerian JF-17 deliveries apparently complete	<p>Unconfirmed sources state all three JF-17s have now been delivered, with the most recent aircraft being reassembled. The first JF-17 was delivered around 21 March, again aboard Il-76 R09-001. The Nigerian Air Force ordered three JF-17s from Pakistan, with registrations NAF-720, NAF-721 and NAF-722. It is not clear how many JF-17s Nigeria will ultimately order. More are likely to be ordered to replace or supplement its F-7Ni fleet – a third of its 15 F-7Ni/FT-7Ni aircraft have been lost in crashes.</p> <p>The Nigerian acquisition of the JF-17 Thunder multi-role fighter jets is part of an ongoing fleet modernisation programme that includes the procurement of eight Russian-made Mi-35M attack helicopters and 12 A-29 Super Tucano close air support aircraft from the US.</p>
news.usni.org 29.04.2021	USMC/RN: Blended U.S. Marine, U.K. Royal Air Force Air Wing Aboard HMS Queen Elizabeth Will be Largest F-35 Deployment to Date	When the “Wake Island Avengers” of U.S. Marine Fighter Attack Squadron (VMFA) 211 land on the United Kingdom’s aircraft carrier, it will mark the largest-ever deployment of F-35 Lightning II Joint Strike Fighters in the history of the program. After participating in workups last year aboard U.K. Royal Navy HMS Queen Elizabeth (R08), the Marine Corps F-35B squadron and the Royal Air Force’s 617 Squadron “The Dambusters” – 10 fighters with the Marines and eight with the Brits – will begin a seven-month deployment in May that will take them across the Indo-Pacific region with what the Marine Corps is calling “the largest fifth-generation carrier air wing in the world.” While the two squadrons used last year’s pre-deployment drills to show the two countries can operate and maintain the F-35B together from the British carrier, the Marines are hoping the deployment will also showcase what a large formation of F-35s is capable of.
dsca.mil 29.04.2021	IND: P-8I and associated support	The State Department has made a determination approving a possible Foreign Military Sale to the Government of India of six (6) P-8I Patrol aircraft and related equipment for an estimated cost of \$2.42 billion. The Government of India has requested to buy six (6) P-8I Patrol aircraft; eight (8) Multifunctional Information Distribution System-Joint Tactical Radio Systems 5 (MIDS-JTRS 5) (6 installed, 2 spares); forty-two (42) AN/AAR-54 Missile Warning Sensors (36 installed, 6 spares); and fourteen (14) LN-251 with Embedded Global Positioning Systems (GPS)/Inertial Navigations Systems (EGIs) (12 installed, 2 spares). Also included are CFM56-

		<p>7 commercial engines; Tactical Open Mission Software (ITOMS) variant for P-8I; Electro-Optical (EO) and Infrared (IR) MX-20HD; AN/AAQ-2(V)I Acoustic System; ARES-1000 commercial variant Electronic Support Measures; AN/APR-39D Radar Warning Receiver; AN/ALE-47 Counter Measures Dispensing System among others.</p> <p>The Indian Navy procured eight P-8I aircraft from Boeing in January 2009, via Direct Commercial Sale and contracted for an additional four aircraft in July 2016. The first P-8I aircraft were delivered to the Indian Navy in 2013, providing interoperability and critical capabilities to coalition maritime operations. This proposed sale of an additional six P-8I aircraft will allow the Indian Navy to expand its maritime surveillance aircraft (MSA) capability for the next 30 years.</p>
<p>globaltimes.cn 29.04.2021</p>	<p>CHN/PAK: JF-17 fighter jet gets J-20's combat missile</p>	<p>The latest, upgraded version of the JF-17 fighter jet has recently been spotted equipped with China's most advanced air-to-air combat missile that is also used by China's J-20 stealth aircraft, with military observers saying on Thursday that the weapon will give the China-Pakistan jointly developed light fighter the upper hand against its counterparts in dogfights and make it one of the world's best in its class. A photo recently circulating on social media shows a JF-17 Block 3 fighter jet with the serial number "3001" on a test flight. A PL-10 air-to-air combat missile can be seen on the tip of each of its wings, the report said, without revealing the date and location.</p> <p>Observers said that the PL-10 equipped by the JF-17 Block 3 is likely an export variation, the PL-10E, which made its debut at the Airshow China 2018 in Zhuhai, South China's Guangdong Province. The PL-10E is a domestically developed, fourth generation air-to-air missile, and is one of the most advanced in the world that is on par with the US' AIM-9X, Liang Xiaogeng, chief designer of the missile, told the Global Times. As the short-range combat missile also used by China's most advanced J-20 stealth fighter jet and others, the PL-10 represents the highest level of its kind, and previous JF-17s are equipped with the old PL-5, eastday.com reported.</p> <p><i>(Ergänzende Information globaltimes.cn vom 29.04.2021: In addition to the PL-10, the JF-17 Block 3 also received a more advanced radar, as China Central Television reported on Saturday that the fighter jet is equipped with the KLJ-7A airborne active electronically scanned array fire control radar. The first JF-17 Block 3 prototype, with serial number "3000", was taken into the skies for the first time in December 2019 in Chengdu, Southwest China's Sichuan Province, Beijing-based Aerospace Knowledge magazine reported at that time. Other technologies, including a new and larger holographic wide-angle head-up display and integrated cockpit display similar to the one used by the J-20, in addition to an advanced infrared missile approach warning system used by the J-10C, J-16 and J-20 fighter jets, are also used on the JF-17 Block 3, Aerospace Knowledge said.)</i></p>

<p>navair.navy.mil 29.04.2021</p>	<p>USMC: Milestone KC-130J Super Hercules delivery includes capability upgrade</p>	<p>The U.S. Marine Corps received its 60th KC-130J aircraft in March; the aircraft includes improved navigational performance, a modernized cockpit, and other key upgrades. The Block 8.1 cockpit upgrade includes a new flight management system that complies with Communications, Navigation, Surveillance and Air Traffic Management mandates. It also boasts enhanced GPS capabilities, improved communications systems, and improvements to the KC-130J's friend-or-foe identification technology. The addition of DoN LAIRCM, a laser-based self-protection system designed to defend against surface-to-air infrared missile threats, increases survivability of the aircraft and aircrew in the event of an airborne attack. The aircraft will become part of Marine Aerial Refueler Transport Squadron (VMGR) 252 at Marine Corps Air Station Cherry Point, North Carolina. The Marine Corps will receive the remaining 26 aircraft over the next five years reaching their program of record 86 KC-130Js.</p> <p><i>(Factsheet KC-130J abrufbar unter:</i> <a href="https://www.navair.navy.mil/product/CKC-130-Hercules-Super-Hercules">https://www.navair.navy.mil/product/CKC-130-Hercules-Super-Hercules</a>)</p>
<p>ilmavoimat.fi 29.04.2021</p>	<p>FIN: Final Quotations for HX Fighter Programme Received</p>	<p>The Finnish Defence Forces Logistics Command has received the final quotations for the HX Programme from five fighter manufacturers. Next, the quotations will be evaluated in line with the invitation for tenders and the programme's decision model to make a procurement proposal. After the evaluation of quotations is completed in autumn 2021, the Finnish Government will decide on the procurement, on proposal by the Ministry of Defence, at the end of 2021.</p> <p>In January 2021, the Finnish Defence Forces sent a specified invitation to tender to the governments of France, Great Britain, Sweden and the United States, to be forwarded to five manufacturers of multi-role fighters in these countries. The aircraft types in question are Boeing F/A-18 Super Hornet (United States), Dassault Rafale (France), Eurofighter Typhoon (Great Britain), Lockheed Martin F-35 (United States) and Saab Gripen (Sweden). The deadline was set at the end of April 2021 and the Logistics Command received final and binding quotations from these five aircraft manufacturers. The final quotations contain information on the comprehensive solution and package, built around each multi-role fighter option; the aim is to create the best possible capability for Finland's defence system while replacing the Hornet fleet. Within the maximum budget set for the programme, the tenderers were asked to prepare a performance package that meets the set requirements and includes not only the aircraft but also other technical systems, training systems, necessary maintenance equipment, test equipment and spare parts, along with weapons, sensors and other required type-specific support functions. The programme costs add up to EUR 10 billion.</p>

		<p>The Parliament has approved an authorisation order of EUR 9.4 billion to procure multi-role fighters to replace the Hornet fleet. The transferable appropriation of EUR 579 million for five years will ensure that the procured system will be introduced as part of Finland's defence system. EUR 21 million was granted to cover the costs arising from the preparation of the programme.</p> <p>Since the procurement will have an impact on the Defence Forces' operational capability and will define the Finnish Air Force's combat capability into the 2060s, it is important to select a system with the best possible capabilities, including supporting elements and development capacity over the entire life cycle.</p> <p><i>(Vollständige Medienmitteilung abrufbar unter:  <a href="https://ilmavoimat.fi/en/-/1948673/final-quotations-for-hx-fighter-programme-received">https://ilmavoimat.fi/en/-/1948673/final-quotations-for-hx-fighter-programme-received</a>)</i></p>
<p>bundeswehr.de 29.04.2021</p>	<p>DEU: C-160 Transall: Eine Legende fliegt nach Hause</p>	<p>Der letzte Einsatzflug der C-160 Transall erfolgt heute. Der treue Begleiter der Luftwaffe, der in zahlreichen Einsätzen Material, Personal und in humanitären Einsätzen auch Lebensmittel transportiert, wird Ende des Jahres ausgemustert. Die Transall verbindet eine lange Geschichte mit der Luftwaffe. Nun tritt sie ihren letzten Flug aus Niger an.</p> <p>Die Lücke, die das langjährige Transportflugzeug hinterlässt, wird vom 2013 in Dienst gestellten A400M und teilweise durch die, zukünftig in Évreux stationierte, C-130 Hercules geschlossen. Auch das letzte Transall-Geschwader, das LTG Lufttransportgeschwader 63, wird es nach Ablauf dieses Jahres nicht mehr geben. Der Flugplatz Hohn wird ab Ende 2021 für die in Norddeutschland gelegenen fliegenden Verbände als Ausweichflugplatz dienen. Der Ausgangspunkt für den Betrieb der A400M ist das LTG Lufttransportgeschwader 62 in Wunstorf und der zugehörige Flugplatz, der erheblich mehr Fläche bietet.</p>
<p>news.usni.org 29.04.2021</p>	<p>USN: First F-35C Air Wing Ready to Bring 5th-Gen Fighters to Carrier Strike Group</p>	<p>As the Navy approaches the first-ever deployment of its advanced carrier air wing – with the fifth-generation F-35C Joint Strike Fighter paired with the CMV-22B Osprey to serve as the carrier onboard delivery plane – leadership from USS Carl Vinson (CVN-70) and Carrier Air Wing 2 say they've ironed out many integration issues between the ship and the two new aircraft types and are ready for a final exercise this summer to prove they can deploy. Capt. Tommy Locke, the deputy air wing commander, said CVW-2 is a denser air wing than ones the Navy has deployed recently. Additional aircraft include an extra E-2D Advanced Hawkeye and two additional EA-18G Growlers in the air wing to help maximize the F-35 capabilities, he told USNI News in a previous interview.</p> <p><i>(Vollständiger Beitrag abrufbar unter:</i></p>

		<a href="https://news.usni.org/2021/04/29/first-f-35c-air-wing-ready-to-bring-5th-gen-fighters-to-carrier-strike-group?utm_source=USNI+News&amp;utm_campaign=9df2f826b3-USNI_NEWS_DAILY&amp;utm_medium=email&amp;utm_term=0_0dd4a1450b-9df2f826b3-234292521&amp;ct=t(USNI_NEWS_DAILY)&amp;mc_cid=9df2f826b3&amp;mc_eid=deb2031232">https://news.usni.org/2021/04/29/first-f-35c-air-wing-ready-to-bring-5th-gen-fighters-to-carrier-strike-group?utm_source=USNI+News&amp;utm_campaign=9df2f826b3-USNI_NEWS_DAILY&amp;utm_medium=email&amp;utm_term=0_0dd4a1450b-9df2f826b3-234292521&amp;ct=t(USNI_NEWS_DAILY)&amp;mc_cid=9df2f826b3&amp;mc_eid=deb2031232)</a>
hindustantimes.com 28.04.2021	IND: IAF set to lease A330 mid-air refueller from France for training	<p>The Indian Air Force (IAF) has approached the French government to lease one Airbus A330 multi-role tanker transport aircraft for training purposes as a precursor to lease five more mid-air refuellers for increasing the combat capability and radius of its multi-role fighters. The leasing will be done on government-to-government basis with the IAF already issuing a request for information (RFI) for a single aircraft while a request for proposals route will be used for the additional five refuellers on lease. The issue was discussed during Air Chief Marshal RKS Bhadauria's visit to France last week.</p> <p>The A330 refuellers of France and UAE air force have been used to ferry as many as 17 Rafale omni-role fighters to India from Merignac-Bordeaux air base since July 2020. Another seven fighters are due to arrive in India in May with a batch being deployed at the new Hashimara air base in West Bengal with Ambala being the first base.</p>
en.yna.co.kr 28.04.2021	KOR/IDN: Indonesia asks for S. Korea's support to cover tech gap in joint fighter project	<p>Indonesia has asked South Korea to help its engineers involved in a joint fighter jet development project catch up with the technological progress made while they were away back home over coronavirus concerns, the defense ministry said Wednesday. "Indonesia welcomed proposals made by South Korea to boost the two countries' defense cooperation and expressed hope for South Korea's support to help Indonesian officials catch up with the technology gap in the KF-21/IF-X joint development project," the ministry said a report to the parliament. Indonesia is a partner for South Korea's 8.8 trillion won (US\$7.9 billion) project to develop its first homegrown supersonic combat plane, though Jakarta has stopped making payments for the 20 percent of the total development cost it had promised to shoulder.</p> <p>The arms procurement agency said the KF-21 will undergo various ground tests starting next month. The first flight test is scheduled for 2022, with the entire development set to be completed by 2026.</p>
scmp.com 27.04.2021	CHN: J-20: Why two heads would be better than one for China's 'Mighty Dragon'	<p>A twin-seater version of China's most advanced fighter jet the J-20 would be able to target enemy electronic equipment and operate in tandem with swarms of drones, according to the Chinese military magazine Ordnance Industry Science Technology. The article said the fifth-generation fighter would be expected to carry out more tasks as the technology evolved, and a second crew member would be needed to carry out some of those functions. "The emergence of a twin-seat version of the J-20 is because the J-20's mission has diversified and China needs a more capable fighter jet," the article said. The article predicted that the J-20's twin-seat</p>

		<p>version would be equipped with more advanced electronic equipment than is found in other Chinese twin-seaters. "It's a piece of cake for the J-20 to perform [electronic interference] duties because of its strong power supply capacity, fire-control radar and integrated avionics system," the article said.</p> <p>"We can imagine that the front pilot will be in charge of flying the aircraft, while the pilot sitting behind is in charge of controlling the electronic inference platform, making the J-20 a nightmare for enemy electronic equipment." The second crew member could also control a supporting fleet of pilotless aircraft. "The drones could be bait to attract enemy aircraft or draw in stealth aircraft ... they can also gather intelligence, carry out attacks against air defence systems and gain air superiority," the article said.</p> <p>The J-20, also known as the Mighty Dragon, is an all-weather stealth fighter with precision strike capabilities that entered service in 2017 but has been dogged by engine problems. Last week military insiders said purpose-built engines for the fighters, which were initially fitted with Russian-made engines, were expected to be ready within the next two years. China has never officially disclosed the exact number of J-20s, but according to another article in the same issue of Ordnance Industry Science Technology, around 90 have been made so far. It added that around 400 or 500 would be needed to fulfil the country's military needs.</p>
dailysabah.com 26.04.2021	Turkey to export armed Hürkuş-C aircraft as projects gain pace	Turkey will soon export its domestically developed Hürkuş-C armed close air support and training aircraft to a yet undisclosed country, according to its manufacturer Turkish Aerospace Industries (TAI). TAI General Manager Temel Kotil told private broadcaster CNN Türk on Sunday that a total of 12 Hürkuş-C will be sold abroad. "We cannot disclose the country because the contract has not been signed yet, but it will take place," he said. In addition to training pilots, the low-cost, high precision Hürkuş-C was developed to perform in light attack and armed reconnaissance missions. With its seven external load stations, Hürkuş-C offers users a large payload capacity of up to 1,500 kilograms (3,306 pounds) that can be utilized to perform challenging missions at high altitudes and demanding geographies, under day and night conditions.
bundeswehr.de 26.04.2021	DEU: Eurofighter/Meteor P2Eb Softwareupdate setzt neue Kräfte frei	Zum ersten Mal wurde beim Taktischen Luftwaffengeschwader 74 in Neuburg ein Eurofighter mit der neuen Software P2Eb ausgestattet. Damit kann der Eurofighter noch mehr. Inhalt dieses Paketes sind zahlreiche Neuerungen, die dem Piloten unter anderem den Einsatz des Lenkflugkörpers Meteor ermöglicht. Insgesamt werden für die Einsatzprüfung drei Luftfahrzeuge des Taktischen Luftwaffengeschwaders 74 aus Neuburg sowie zwei Luftfahrzeuge vom Taktischen Luftwaffengeschwader 73 „Steinhoff“ aus Laage umgerüstet. Ziel der Tests ist es, den Nachweis über die Zuverlässigkeit sowie die Tauglichkeit für den Einsatzflugbetrieb zu erbringen. Die Fähigkeit zum Einsatz Meteor bedeutet im Luftkampf auch, Ziele zu bekämpfen, die für den Piloten mit bloßem Auge nicht erkennbar sind. Ziele können somit frühzeitig bekämpft werden. Dadurch erhöht

		sich im Gefecht die Durchsetzungs- und Überlebensfähigkeit des Eurofighters erheblich. Das P2Eb Update sorgt auch für einen besseren Schutz gegen gegnerische, radargestützte Bedrohungen durch Flugabwehrstellungen, Lenkflugkörper oder Systeme der Elektronischen Kampfführung (Eloka). Bedrohungen durch das Radar werden künftig früher erfasst und Gegenmaßnahmen können effizienter und wirkungsvoller eingeleitet werden. Ergänzend hierzu wird das Selbstschutzsystem aktualisiert. Überarbeitete Täuschkörper bieten einen effizienteren Schutz vor dem gegnerischen Waffenpotenzial.
defense.gov 26.04.2021	USAF: TWN Peace Phoenix Rising 2 (PPR2) program	Lockheed Martin Aeronautics Corp. has been awarded a not-to-exceed \$138,000,000 modification (P00079) to contract FA8615-12-C-6016 for the Peace Phoenix Rising 2 (PPR2) program. The contract modification is for the development and fielding of capabilities for the Automatic Ground Collision Avoidance System and AGM-88 High Speed Anti-radiation Missile; improvements in radar software maturity; an update to the Data Acquisition System; and Advanced Identification Friend or Foe for the Taiwan Retrofit Program F-16 Block 20 fleet. Work is expected to be completed Sept. 30, 2022.  <i>(Ergänzende Information defenseworld.net vom 27.04.2021: Under the Phoenix Rising program, Taipei is upgrading its fleet of 144 F-16 A/B Block 20 Fighting Falcon jets to the F-16V configuration. The Air Force received its first modernized jet in 2018. The project is expected to be completed by 2023. As part of the upgrade, the jets will be installed with Northrop Grumman AN/APG-83 SABR AESA radar, new mission computers, and more advanced avionics and electronic warfare suite. The upgraded jet will also have the capability to be armed with new precision-guided weapons. The total cost of the program is estimated to be around \$5.3 billion. The U.S. State Department approved the FMS sale of 66 F-16C/D Block 70 fighters, along with related equipment and support, to Taiwan for an estimated cost of \$8 billion in 2019.)</i>
en.yna.co.kr 26.04.2021	KOR: More cargo planes for the Air Force	The South Korean government decided to buy more cargo planes for the Air Force from abroad. Under the 480 billion won project, DAPA seeks to secure four units by 2026. The exact type of aircraft has yet to be decided, with the C-130J Hercules or A400M Atlas airlifter being on its list.
israeldefense.co.il 26.04.2021	ISR: IAF receives additional stealth fighters	Three F-35 "Adir" stealth fighters landed recently at the Nevatim base in southern Israel and joined the 116th Squadron, named "the Lions of the South", the IAF's second squadron of Adirs. The IAF now has 27 F-35s. The planes flew to Israel from Lockheed Martin facilities in the U.S.
defence-blog.com 24.04.2021	THA: South Korea, Thailand reach agreement on	According to industry sources, the Thai government and KAI have agreed on two additional T-50TH aircraft to enhance the Royal Thai Air Force's airpower and efficient pilot training. The T-50TH is a special version of the T-50 Golden Eagle developed for Thailand. The T-50TH developed to train and prepare pilots for the F-16 and

	additional T-50TH trainer jets	JAS-39, replacing trainers such as L-39s in service with the Royal Thai Air Force. The Royal Thai Air Force currently operates 12 T-50TH and ordered an upgrade program for its fleet in May of 2019.
dailysabah.com 22.04.2021	TUR: Turkey's unmanned fighter jet prototype to fly by 2023	Turkey aims to conduct the maiden flight of the prototype of its domestically-made unmanned fighter jet in 2023, according to the chief technology officer (CTO) of leading local drone magnate, Baykar. Selçuk Bayraktar's announcement came following Turkey's official expulsion from the F-35 fighter jet program.
janes.com 22.04.2021	IND: Indian Air Force completes first Rafale fighter squadron	The Indian Air Force's (IAF's) first squadron equipped with Dassault Rafale multirole fighter aircraft is now complete after the final four aircraft arrived at Jamnagar Air Force Station (AFS) in western India on 21 April. The aircraft, which flew non-stop from Dassault's facility in Bordeaux-Merignac using in-flight refuelling provided by the air forces of France and the United Arab Emirates, are part of an order for 36 Rafales placed by the IAF in 2016 for EUR7.9 billion (USD9.5 billion).
pilatus-aircraft.com 22.04.2021	QAT: Pilatus Flugzeugwerke AG – Geschäftsbericht 2020	Spezielle Höhepunkte waren die Lieferung nach Alaska oder die Erstflüge der schwedischen Flugzeuge – alles Ambulanz PC-24. Die Auslieferung der Spectre an Irland, diese speziell als Überwachungsflugzeuge ausgerüsteten PC-12, freute mich besonders. Ebenso der Trainer Vertragsabschluss mit Spanien für den PC-21 (24). Oder die zwei PC-24, welche die Luftwaffe Katars Ende 2020 bestellt hat.
		<b>Hubschrauber und Kipprotor-Flugzeuge</b>
dsca.mil 29.04.2021	AUS: CH-47F Chinook	The State Department has made a determination approving a possible Foreign Military Sale to the Government of Australia of CH-47F Chinook Helicopters and related equipment for an estimated cost of \$259 million. The Government of Australia has requested to buy four (4) CH-47F cargo helicopters with customer-unique modifications; eight (8) T55-GA-714A aircraft turbine engines, five (5) AN/AAR-57 Common Missile Warning Systems (CMWS); eight (8) Embedded Global Positioning System (GPS)/Inertial Navigation Systems (INS/EGI) +429; and two (2) EAGLE+429 Embedded Global Positioning System (GPS)/Inertial Navigation Systems (INS/EGI) among others. The total estimated value is \$259 million. These aircraft will be provided from U.S. Army stock.  <i>(Ergänzende Information janes.com vom 30.04.2021: The Australian Defence Force (ADF) has already received 10 CH-47F Chinooks, which replaced seven CH-47Ds it had operated since 1995. These helicopters are operated by the Australian Army from Townsville, Queensland.)</i>

en.yna.co.kr 26.04.2021	KOR: S. Korea to develop indigenous Marine Corps chopper by 2031	South Korea decided Monday to develop an indigenous attack helicopter for Marine Corps operations, the arms procurement agency said. The new platform is likely to be based on a MUH-1 Marineon, the Marine variant of the country's KUH-1 Surion helicopter, according to officials. The Marine Corps have wanted foreign aircraft choppers, such as the AH-64 Apache or AH-1Z Viper of Bell Textron, not an armed version of the Marineon. "We've taken into consideration diverse factors such as the interoperability with the Marineon and the operations and management efficiency," DAPA said in a statement. "The project is expected to enhance our troops' capabilities, particularly in northwestern islands (near the inter-Korean border)."
flightglobal.com 19.04.2021	NOR: NH-90 availability issue	So far, Norway has received 11 of 14 NH90s, with the final three helicopters to be handed over from June this year. Deliveries were scheduled to begin in March 2020, but were pushed back at Oslo's behest. "This one-year postponement has seen the implementation of an agreed way forward to accommodate many additional requests from the Norwegian customer," says NHI. Availability issues were at the heart of Norway's recent decision to seek a leased alternative to its naval NH90s for coastguard operations, allowing Oslo to dedicate its fleet to anti-submarine warfare operations. While declining to address the Norwegian plan, NHI says it is working with its customer to increase fleet uptime. Additionally, retrofit activities on six examples, raising them to the full operational configuration (FOC) standard, are under way at the manufacturer's Tessera plant near Venice.
		<b>Unbemannte Luftfahrzeuge (UAV) und Robotik</b>
af.mil 06.05.2021	USAF: MQ-9 Reaper gets enhanced capabilities	The 174th Attack Wing has partnered with multiple Department of Defense contractors and academia to lead the effort in establishing new and additional capabilities for the MQ-9 Reaper. According to the assistant director of operations at the 174th Operations Support Squadron, capabilities include battlefield and airspace communications enhancements as well as target identification tracking and processing. The assistant director of operations explained there are three separate pods; the Freedom Pod, Centerline Avionics Bay Pod and the REAP Pod. Each pod is manufactured by a contractor which specializes in its unique function, leveraging expertise from previous programs. The pods help the MQ-9 play an increased, more prominent role in the command and control arena of the battlefield. It will be able to receive and pass information to and from older fourth generation and newer fifth-generation aircraft.
afrl.af.mil 05.05.2021	USAF:	The Skyborg leadership team conducted a two-hours and ten minute flight test April 29 of the Skyborg autonomy core system (ACS) aboard a Kratos UTAP-22 tactical unmanned vehicle at Tyndall AFB, Florida. The ACS demonstrated basic aviation capabilities and responded to navigational commands, while reacting to geo-

	Skyborg Autonomy Core System has Successful First Flight	<p>fences, adhering to aircraft flight envelopes, and demonstrating coordinated maneuvering. Follow on events will demonstrate direct manned-unmanned teaming between manned aircraft and multiple ACS-controlled unmanned aircraft.</p> <p>The aim of the Skyborg Vanguard program is to integrate full-mission autonomy with low-cost, attritable unmanned air vehicle technology to enable manned-unmanned teaming. Skyborg will provide the foundation on which the Air Force can build an airborne autonomous ‘best of breed’ system of systems that adapts, orients, and decides at machine speed for a wide variety of increasingly complex mission sets.</p>
dsca.mil 23.04.2021	AUS: MQ-9B Remotely Piloted Aircraft	<p>The State Department has made a determination approving a possible Foreign Military Sale to the Government of Australia of MQ-9B Remotely Piloted Aircraft and related equipment for an estimated cost of \$1.651 billion. The Government of Australia has requested to buy up to twelve (12) Weapons-Ready MQ-9B, Remotely Piloted Aircraft; fifteen (15) Raytheon Multi-Spectral Targeting Systems-D (MTS-D) EO/IR sensors; sixteen (16) Lynx AN/APY-8 Synthetic Aperture Radars (SAR) with Ground Moving Target Indicator (GTMI); fifteen (15) RIOTM Communication Intelligence Systems; thirty-six (36) Embedded Global Positioning System/Inertial Navigations Systems (EGI) with Selective Availability Anti-Spoofing Modules (SAASMs); six (6) KMU-572 Joint Direct Attack Munitions (JDAM) tail kits for 500lb bombs; four (4) MXU-650 Airfoil Groups for 500lb Paveway II GBU-12; seven (7) MXU-1006 Airfoil Groups for 250lb Paveway II GBU-58; four (4) MAU-169 or MAU-209 Computer Control Groups (CCGs) for 250lb/500lb Paveway II GBU-58/GBU-12; six (6) FMU-139 Fuse Systems; twelve (12) MK-82 General Purpose 500lb inert bombs; five (5) High Bandwidth Compact Telemetry Modules (HCTMs). Also included are amongst other things Leonardo/Selex SeaSpray 7500 maritime radars, KOR-24A Small Tactical Terminal Link-16, Hellfire Training Missiles, missile rail kits and integration; M-299 Hellfire Rail Launchers; DSU-38 Laser Illuminated Target Detector for GBU-54 and MK-81 General Purpose Bombs 250lb Inert Bombs.</p>
dailysabah.com 22.04.2021	TUR: Bayraktar Akıncı UCAV	<p>Mass production of the Bayraktar Akıncı UCAV has started and the first deliveries are planned to be made this year. The Bayraktar Akıncı S-1, the first mass-produced model and whose integration has been completed, recently arrived in Çorlu to carry out tests. Akıncı is longer and wider than the predecessor model Bayraktar TB2 UCAV and is set to perform strategic tasks. The latter combat drone was exported to Ukraine, Qatar and Azerbaijan as well.</p> <p>The Akıncı UCAV, which has 5.5 tons of take-off weight, stands out with a total payload capacity of 1,350 kilograms (2,976 pounds) – 400 kilograms internal and 950 kilograms external. The unmanned aircraft platform, which has a 20-meter (65-foot) wingspan with its unique twisted-wing structure, will also provide high flight</p>

		<p>safety thanks to its fully automatic flight control and triple-redundant autopilot system. Akinci, apart from the mini smart munition, is set to launch cruise missiles.</p> <p>The state-of-the-art UCAV – in addition to carrying critical loads such as an Electro-Optical/Infra-Red (EO/IR) camera, the AESA radar, the Beyond Line of Sight (satellite) connection and electronic support systems – will also have advanced artificial intelligence (AI) features that will allow it to collect information by recording the data it receives from sensors and cameras on the aircraft. The AI system, which will be able to detect the angle of roll, stand up and orientation of the aircraft without the need for any external sensor or global positioning system, will provide environmental awareness by using geographic information. The advanced AI system will have the ability to make decisions by processing the data it obtains. It can detect targets that cannot be detected by human eyes.</p> <p>Ammunitions expected to be used on the Akinci include Roketsan’s Cirit laser-guided missile and laser-guided long-range anti-tank missile (L-UMTAS); Bozok munitions, within visual range air-to-air missile (WVRAAM), Bozdoğan and beyond visual range air-to-air missile (BVRAAM) Gökdoğan, standoff missiles (SOM), MAM-T, MAM-C and MAM-L smart micro munitions (MAM) and the Mark 80 series of low-drag general-purpose bombs (MK-81, MK-82, MK-83).</p>
<p>navy.mil 22.04.2021</p>	<p>USN: Unmanned Aerial Vehicle Sea Guardian Operates with Naval Assets</p>	<p>The U.S. Navy demonstrated the successful integration of an unmanned maritime surveillance aircraft system with manned capabilities during the Unmanned Systems Integrated Battle Problem 21 (UxS IBP 21) off the coast of San Diego, April 21. The week-long event involves surface, subsurface, and aerial unmanned assets, operating with littoral combat ships, guided-missile destroyers, guided-missile cruisers, submarines and helicopter squadrons. The unmanned MQ-9B Sea Guardian operated in conjunction with a guided-missile cruiser, executing long-range, over-the-horizon targeting. Using sonobuoys and other assets, the Sea Guardian identified contacts and reported locations remotely to the commander on board the cruiser. Operational synchronization between unmanned capabilities and traditional manned naval assets ensures the Navy maintains its technological and warfighting advantage. Sea Guardian enhances the Navy’s anti-submarine and anti-surface warfare capabilities, among many others.</p> <p><i>(Ergänzende Information ga-asi.com vom 28.04.2021: During UxS IBP 21, a GA-ASI MQ-9A Block 5 Unmanned Aircraft System (UAS) acted as a surrogate for the MQ-9B SeaGuardian and was able to demonstrate for the first time: successful Link connectivity with U.S. Navy surface ships and aircraft; cooperative anti-submarine warfare (ASW) operations, to include the first successful high-altitude sonobuoy drop from a UAS; Automatic Identification System (AIS) correlation with a U.S. Navy P-8 Poseidon and MH-60R Seahawk; exchange of Link 16 data over Global Command and Control</i></p>

		<i>System – Maritime (GCCS-M) from a UAS; and long-range over-the-horizon targeting from a UAS to a U.S. Navy Destroyer.)</i>
af.mil 21.04.2021	USAF: MQ-9 Reaper mods targeted to provide capability for near-peer threats	<p>The Air Force Life Cycle Management Center's MQ-9 Program Office is moving forward with several fleet enhancement capabilities aimed at increasing the MQ-9 Reaper's effectiveness against near-peer adversary threats. The MQ-9 is an unmanned aircraft with intelligence, surveillance, reconnaissance, and strike capability, traditionally used for Counter-Violent Extremist Organization combat operations. That mission is now shifting. The MQ-9 is demonstrating it is still a relevant platform as it supports new missions in United States European Command and is now set to receive a suite of upgrades to allow the platform to offer a host of new capabilities for combatant commanders and warfighters around the world.</p> <p>The Air Force will award the first delivery order of planned MQ-9 Multi-Domain Operation aircraft – which will include several new upgrades from previous production builds – to General Atomics Aeronautical Systems in April 2021. The Air Force is also retrofitting a portion of the already fielded MQ-9 fleet to the same M2DO configuration.</p> <p>The MQ-9 team will increase the electronic power for the platform. This increase, coupled with concurrent development efforts to create an open architecture design for the platform, will allow the Air Force to rapidly integrate new capabilities in response to emerging threats identified by combatant commanders. Additional M2DO enhancements also include upgrades to the electro-optical/infra-red sensor and will expand the types of weapons the platform will be able to carry. The Air Force projects with these smart investments the MQ-9 will remain operationally viable for worldwide operations through the end of the platform's projected service life of 2035. In conjunction, the Air Force will continue to evaluate options to find a more viable solution in the future.</p>
foi.se 21.04.2021	RUS: S-70 Okhotnik	<p>Okhotnik is a long-distance strike UAV with a readily available engine, under development by the Sukhoi design bureau since 2011. Its origins date back to 2009, when Sukhoi and MiG worked jointly on a heavy strike drone. The Russian defence industry sees Okhotnik as a prototype for a sixth generation of Russian fighters. The Okhotnik has a projected top speed of 1000 km/h and weighs up to 20 tonnes. The Okhotnik incorporates some technologies from the Su-57, but has also been delayed by a number of years. The first prototype was revealed in 2017; ground tests of the engine started in late 2018. Its maiden, proper test flight took place in August 2019. In September 2019, Russia's Ministry of Defence released a video showing the Okhotnik flying alongside the Su-57, leading to speculation that both systems will be used together in certain combat</p>

		situations. According to the head of the United Aircraft Corporation, Yuri Slyusar, serial deliveries of Okhotnik from the Novosibirsk Aviation Plant should begin by 2024.
		<b>Bewaffnung und weitere Nutzlasten</b>
mbda-deutschland.de	Factsheet Meteor Beyond Visual Range Air-to-Air Missile (BVRAAM) system	Abrufbar unter: <a href="https://www.mbda-deutschland.de/wp-content/uploads/2018/03/Meteor-18-2.pdf">https://www.mbda-deutschland.de/wp-content/uploads/2018/03/Meteor-18-2.pdf</a>
northropgrumman.com 04.05.2021	USAF: Litening Color Targeting Pods Enter Service	Northrop Grumman Corporation's LITENING advanced targeting pod has been fielded for the first time with full-color, digital video capability with the Air Force Reserve and Air National Guard, giving pilots of the service's F-16s an unprecedented level of situational awareness and targeting certainty. The LITENING pod can display up to three different views simultaneously, allowing operators to see color and infrared video side by side, and in different fields of view. The result is a clearer view of an area of interest only available when flying with LITENING. LITENING's color video capability gives pilots a clearer picture of the battlespace, making targeting faster and more accurate. Built with a modular design, any LITENING pod can be upgraded to the color configuration. The upgrade also includes the ability to record simultaneous video feeds from all sensors for post-mission analysis, automatic laser code display and an eye-safe mode that allows for more realistic training while using the laser. Northrop Grumman has delivered more than 900 LITENING pods to the United States and international partner nations. The pod has maintained an availability rate in excess of 95 percent.  <i>(To see LITENING color images and video, visit <a href="https://www.northropgrumman.com/litening">https://www.northropgrumman.com/litening</a>.)</i>
defense.gov 30.04.2021	USN: F-35/Joint Strike Missile	Lockheed Martin is awarded a \$57,364,337 modification to a previously awarded cost-plus-incentive-fee contract (N0001919C0010). This modification adds scope to provide for the integration, testing and initial certification of the Norwegian Joint Strike Missile on the F-35A aircraft. Additionally, this modification provides early software development efforts to implement universal armament interface revision-five architecture in support of the United Kingdom's Select Precision Effects At-Range Capability Three on the F-35B aircraft. Work is expected to be completed in July 2024.
defense.gov 30.04.2021	US ARMY: AGM-114 Hellfire II	Lockheed Martin was awarded a \$663,728,183 modification (P00062) to contract W31P4Q-18-C-0130 for Hellfire II missile production. Work has an estimated completion date of Sept. 30, 2024.

defense.gov 30.04.2021	USAF: GBU-53/B Small Diameter Bomb II StormBreaker	Raytheon Missiles and Defense has been awarded a \$212,701,232 fixed-price-incentive-firm contract for StormBreaker® (SDBII, GBU-53/B) production Lot 7. This contract provides for all up rounds and containers. Work is expected to be completed Feb. 28, 2025. This contract involves classified Foreign Military Sales (FMS) and is the result of a sole-source acquisition.
afcent.af.mil 28.04.2021	USAF: Deployed fighters utilize ACE concept, execute tactical munitions ferry	<p>Six F-15E Strike Eagles landed here with a modified munitions configuration on Apr. 25, 2021, as part of an Agile Combat Employment operation in the U.S. Central Command theater. The 494th Expeditionary Fighter Squadron executed the first combat tactical ferry mission for the F-15E platform, enabling the six-ship to carry double their standard munitions load. "These F-15Es are carrying what is called a 'tac-ferry' load out. What that means is we can maneuver using Agile Combat Employment, and be postured to go forward from a main operating base," said Lt. Col. Curtis Culver, 494th EFS Director of Operations. "This is the next step for the Air Force in Agile Combat Employment. So instead of having multi-capable Airmen that are exercising maneuver and logistics, now we're doing that with sustained munitions to project power. By carrying more bombs than we'd actually carry to drop, we're setting up the initial days of combat."</p> <p>The 85th Test and Evaluation Squadron showcased the initial ACE proof of concept on Feb. 22, 2021, when they flew an F-15E fighter aircraft carrying six JDAMS in a single sortie. The team that executed the ACE concept for combat operations included pilots, weapon system officers, maintainers, and munitions Airmen from the 332nd with support from the 380th Air Expeditionary Wing.</p> <p><i>(Ergänzende Information defenseindustrydaily.com vom 30.04.2021: The purpose is to ferry the live bombs to a location without having to use a cargo plane to do so.)</i></p>
economictimes. indiatimes.com 28.04.2021	IND: LCA Tejas cleared to carry Python-5 air-to-air missile	Indigenously-developed light combat aircraft Tejas has been cleared to carry fifth generation Python-5 air-to-air missile as part of its weapons package that would significantly enhance the combat prowess of the jet, officials said on Wednesday. "Tejas added the 5th generation Python-5 air-to-air missile in its air-to-air weapons capability on Tuesday. Trials were also aimed to validate enhanced capability of already integrated Derby beyond visual range AAM on Tejas," said an official. "Derby missile achieved direct hit on a high speed maneuvering aerial target and the Python missiles also achieved 100 per cent hits, thereby validating their complete capability. The trials met all their planned objectives," the official said.
militaryleak.com 26.04.2021	TUR:	Turkey's Aksungur medium-altitude, long-endurance (MALE) unmanned aerial vehicle (UAV) has successfully hit a target with new domestically produced ammunition. Aksungur hit the target at a range of 30 kilometers

	Turkish Aksungur drone successfully Hits Target 30 km Away with KGK-SIHA-82 Glide Bomb	with the KGK-SIHA-82, which weighs 340 kilograms (750 pounds), and was fired by the unmanned aerial vehicle the first time. The KGK-SIHA-82 useful load has been developed by TÜBITAK Defense Industries Research and Development Institute (SAGE). The firing test was carried out at an altitude of 20,000 feet. The shooting range will be increased to 45 kilometers with the same ammunition soon. KGK is a wing-assisted guidance kit that converts existing unguided 1000 lb MK83 and 500 lb MK82 general purpose bombs into long-range, air to ground smart weapons.
navair.navy.mil 22.04.2021	USN: Air-to-Air Missiles Program Office hits new milestone	<p>The Air-to-Air Missiles Program Office (PMA-259) International Programs team has reached a first-time Foreign Military Sales (FMS) portfolio value of \$3 Billion for 34 countries and two NATO member countries. Their primary international security cooperation focus is on the advanced fifth-generation Infra-red AIM-9X weapon system, the AIM-9X Block I and Block II/II+ Sidewinder missile. Almost 3,000 AIM-9X Block II/II+ missiles have been procured on behalf of 25 countries globally.</p> <p>The United Arab Emirates (UAE), an existing international partner, finalized an agreement with the U.S. this March to procure the F-35 Lightning II, Joint Strike Fighter (JSF) aircraft and requested additional AIM-9X Block II+ missiles for external carriage on the JSF.</p>
dailysabah.com 22.04.2021	TUR: Turkey's Akıncı UCAV hits targets with latest Roketsan munitions	<p>Turkey's cutting-edge Akıncı unmanned combat aerial vehicle (UCAV) successfully passed its first firing test late Thursday using the latest MAM-T, MAM-C and MAM-L smart micro munitions (MAM) domestically developed by leading defense contractor Roketsan. During the test all three of the lifeless test munitions without warheads, which were sent from Akıncı UCAV with laser targeting, hit the targets with pinpoint accuracy.</p> <p>MAM is a laser-guided system produced by Roketsan for armed drones, light attack aircraft and fighter aircraft. MAM-C is the high explosive variant while MAM-L is the thermobaric one. The biggest of the bunch, MAM-T is the long-range variant.</p> <p>MAM-T, the new member of the family, was used for the first time during the firing test. Developed to meet the need for higher warhead efficiency and longer ranges, the MAM-T has Block-1 configuration ammunition and a semi-active laser seeker head that provides high sensitivity against moving and stationary targets. Developed to be compatible with different platforms, MAM-T can be used against armored vehicles, buildings and surface targets with over 30 kilometers (18.6 miles) of range capability from UCAVs.</p>
defense.gov 22.04.2021	USAF: AGM-158 JASSM	Lockheed Martin Corp. has been awarded a \$59,288,190 cost-plus-fixed-fee contract for Joint Air-to-Surface Standoff Missile (JASSM) enterprise software. This contract shall sustain, modernize, and advance JASSM

		<p>enterprise management software, operational real-time combat analysis systems, synchronize software, provide mission optimization analysis/reporting capabilities, terminal area model automation systems engineering, integration and test, and enhance JASSM advanced training. is expected to be completed March 21, 2022 for the base year.</p> <p><i>(Download the AGM-158 JASSM Fact Sheet: <a href="https://www.lockheedmartin.com/en-us/products/jassm.html">https://www.lockheedmartin.com/en-us/products/jassm.html</a>)</i></p>
		<b>Air Power</b>
taiwannews.com.tw 07.05.2021 08:08 AM	TWN/CHN: Chinese military aircraft enters Taiwan's ADIZ	A single 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, issued radio warnings, and deployed air defense missile systems to track the PLAAF airplane.
reuters.com 06.05.2021 00:48 AM	SYR/ISR: Israeli aggression reported over Syria's Quneitra	<p>Syria's state news agency reported early on Thursday that an "Israeli aggression" was carried out with a helicopter over an area in Syria's Quneitra governate in the south, without resulting in any damage. The Israeli military declined to comment on the incident.</p> <p><i>(Vollständiger Beitrag einschliesslich Forpost surveillance footage showing the 2016 double missile strike on Azaz National Hospital, Syria inadvertently released in 2021 by the Russian Ministry of Defense itself abrufbar unter: <a href="https://www.haaretz.com/middle-east-news/.premium-licensed-to-kill-how-russia-uses-israeli-drones-to-bomb-civilians-in-syria-1.9768100">https://www.haaretz.com/middle-east-news/.premium-licensed-to-kill-how-russia-uses-israeli-drones-to-bomb-civilians-in-syria-1.9768100</a>)</i></p>
haaretz.com 06.05.2021	RUS/SYR: How Russia Uses Israeli Drones to Bomb Civilians in Syria	Over half a decade since Russia introduced the Israeli-designed and licensed Forprost drone into Syria, it's now clear how pivotal a role it has played in Putin's endless bombing campaign in defense of the Assad regime – including the illegal targeting of civilian infrastructure
voanews.com 05.05.2021 08:23 PM	USA/AFG: US Airstrikes Target Taliban as Fighting Intensifies	The United States is making good on its pledge to support Afghanistan's security forces with military force even as U.S. and coalition troops continue to leave the country. A U.S. official confirmed to VOA late Wednesday that U.S. forces were actively carrying out airstrikes against Taliban fighters in southern Afghanistan's Helmand province, where fierce fighting has raged for days. The official, who spoke on the condition of anonymity, declined to share additional details, citing the need for operational security. The U.S. airstrikes come as Afghan

		<p>security forces have come under intense pressure from the Taliban, especially around Lashkar Gah in Helmand province, where aid groups have reported a significant increase in fighting in just the past few days.</p> <p>While Afghan officials have been eager to tout the effectiveness of their air force, some U.S. officials have warned it may be short-lived. The Afghan Air Force, these officials warn, remains dependent on thousands of U.S. and international contractors for maintenance — contractors set to leave with the remaining U.S. and coalition forces by early September. "Without continued contractor support, none of the Afghan Air Force's airframes can be sustained as combat effective for more than a few months," the U.S. Special Inspector General for Afghanistan Reconstruction warned in a report issued last week.</p> <p>There are also concerns about how Afghan security forces will adapt as the drawdown progresses and there are no longer any U.S. drones or warplanes in Afghanistan to conduct surveillance or carry out strikes in support of Afghan forces on the ground. U.S. officials admit that bringing in such resources from "over the horizon" will take longer and will generally be "extremely difficult."</p> <p>The commander of US forces in the Middle East and South Asia admits that without troops on the ground, making sure al-Qaida, Islamic State do not regenerate will likely be problematic. For now, the U.S. has six B-52 bombers on standby at Al Udeid Air Base in Qatar and the USS Dwight D. Eisenhower aircraft carrier strike group in the Arabian Gulf. But their main task, for now, is providing protection for the withdrawal of U.S. and coalition forces. Talks with countries in the region to base warplanes and other military assets closer to Afghanistan have so far made little progress, officials said.</p>
<p>taiwannews.com.tw 05.05.2021 09:37 AM</p>	<p>TWN/CHN: Chinese military turboprop enters Taiwan's ADIZ</p>	<p>A single People's Liberation Army Air Force (PLAAF) Shaanxi Y-8 anti-submarine warfare plane flew on Tuesday afternoon (May 4) into the southwest corner of Taiwan's ADIZ, marking the second intrusion this month, according to the Ministry of National Defense (MND). In response, Taiwan sent aircraft, issued radio warnings, and deployed air defense missile systems to track the PLAAF turboprop.</p> <p>According to MND data, Chinese planes were tracked in Taiwan's identification zone 22 times in April, 18 times in March, 17 times in February, and 27 times in January. Last year, they were observed 19 times in December, 22 times in November, and 22 times in October, including a drone on Oct. 22.</p>
<p>reuters.com 05.05.2021 04:24 AM</p>	<p>SYR/ISR:</p>	<p>Syrian air defences downed several Israeli missiles during pre-dawn raids on the Mediterranean port city of Latakia, the Syrian army said on Wednesday. A Syrian army statement said aerial strikes soon after 2am hit several areas along the south west coast of Latakia. One civilian was killed and six injured in one of the strikes</p>

	Syria says Israeli raids target Mediterranean port region of Latakia	<p>that the army said hit a civilian plastics factory in Latakia city. State media earlier reported the Israeli attack also hit the town of Hifa, east of the port city of Latakia, and Misyaf in Hama province. Although Israeli strikes in the last few years have targeted many parts of Syria, they have rarely hit Latakia which is close to Russia's main air base of Hmeimim.</p> <p><i>(Ergänzende Information elintnews vom 05.05.2021: Apparently one of the sites struck tonight is a military site near Deir Shamil in the Masyaf zone west of Hama. A possible Syrian military base is located on the outskirts. Don't use plastic warehouses to store weapons. Also the IAF doesn't fly 350km to strike an innocent civilian plastic warehouse. There were secondary explosions clearly visible.)</i></p>
bundeswehr.de 04.05.2021	NATO: VAPB – Übergabe der Verantwortung für den baltischen Luftraum	Auf der estnischen Ämari Air Base erfolgte die symbolische Übergabe der Verantwortung für den baltischen Luftraum von der deutschen an die italienische Luftwaffe. Die deutsche Luftwaffe blickt auf acht Monate „Verstärkung Air Policing Baltikum 2020/21“ (VAPB) zurück, in denen insgesamt 35 Alarmstarts, sogenannte Alpha-Scrambles, durch den NATO-Luftverteidigungsgefechtsstand CAOC (Combined Air Operations Center) im deutschen Uedem, befohlen wurden. Die italienische Luftwaffe übernimmt in den kommenden Monaten die Verantwortung für die Sicherung des baltischen Luftraums. Die Alarmrotte besteht in diesem Zeitraum aus Kampfflugzeugen des Typs F-35A Lightning II. Die Tarnkappenjets verstärken spanische Eurofighter, welche zur Luftraumsicherung über Estland, Lettland und Litauen im litauischen Siauliai stationiert sind.
defense.gouv.fr 04.05.2021	FRA: CHAMMAL: boarding for in-flight refuelling on Rafale	By operating daily over Syrian and Iraqi territories, the Rafale from the proposed airbase (BAP) in the Levant contribute to the "support" pillar of Operation Chammal. To carry out their fire support and intelligence missions, the Rafale carry out in-flight refuelling, a parameter essential for carrying out long flights of several hours. Once in flight, the Rafale can count on a fleet of supply aircraft operating for the Coalition. The latter consists of French aircraft, such as the C-135 or the A330 Phoenix (multi-roleair-to-air refuelling and transport aircraft), German A400M Atlas aircraft, as well as Italian (Boeing 767) and American tankers (C-135 and KC10). The flight range of fighter jets is thus increased tenfold, allowing them to carry out their missions in hostile territory with reactivity and agility. With their know-how, fighter pilots can carry out several refuellings during the same flight, day or night. Since the beginning of 2021, the BAP Rafale in the Levant have carried out 229 air sorties and accumulated 1132 hours of flight time in operational missions. For all of these air sorties, 563 in-flight refuellings were carried out on the Coalition's various refuelling aircraft. A Rafale pilot refuels an average of 40 times during his detachment to the theatre.
airforcemag.com 04.05.2021	USAF:	The retrograde from Afghanistan is underway, with U.S. Air Force C-17s carrying equipment and other materiel out of the country. U.S. Central Command in a May 4 statement said about 60 C-17 loads have moved out of

	C-17s Fly Equipment Out of Afghanistan as Withdrawal Continues	the country since President Joe Biden on April 14 announced the end of the war in Afghanistan. CENTCOM estimates it has completed between 2 and 6 percent of the entire retrograde process.
gov.uk 03.05.2021	GBR: Operation Shader - F-35B jets to join the fight against Daesh from the Carrier Strike Group	F-35B Lightning will be the cutting edge of the Carrier Strike Group's (CSG21) formidable power in the air. CSG21, led by the aircraft carrier HMS Queen Elizabeth, is the largest concentration of maritime and air power to leave the UK in a generation. It will set sail next month on its first operational deployment. The renowned 617 Squadron RAF ('The Dambusters') will operate the jets to provide tangible and impactful support to counter-Daesh operations in Iraq and Syria.  <i>(Ergänzende Information news.usni.org vom 03.05.2021: The Marine fighter squadron that will be part of the largest F-35B Lightning II Joint Strike Fighter deployment to date landed aboard the U.K. Royal Navy aircraft carrier HMS Queen Elizabeth (R08) on Sunday, the U.S. Marine Corps announced. The 10 jets from the "Wake Island Avengers" of U.S. Marine Fighter Attack Squadron (VMFA) 211 flew to Royal Air Force Lakenheath from their home base of Marine Corps Air Station Yuma, Ariz., last week ahead of embarking Queen Elizabeth. Now aboard, the Marines will pair with eight jets from the Royal Air Force's 617 Squadron, "The Dambusters.")</i>
reuters.com 03.05.2021 07:40 PM	USA/IRQ: Rockets land in Iraqi base hosting U.S. contractors	At least three rockets hit the Iraqi military air base of Balad, north of Baghdad, where some U.S. contractors are billeted, Iraqi security officials said on Monday. Three other rockets fell near the base in the attack on Sunday, the sources said. No casualties or damage have been reported. No group has claimed responsibility, but armed groups that some Iraqi officials say are backed by Iran have claimed similar incidents in the past.
alarabiya.net 03.05.2021 02:43 AM	SAU/HOUTHİ: Saudi Arabia's air defenses intercept ballistic missile, 2 drones targeting Najran	Saudi Arabia's air defenses have intercepted a ballistic missile and two explosive drones launched by the Iran-backed Houthi militia targeting the southern city of Najran. Earlier the Arab Coalition confirmed two explosive drones had targeted southern areas of Saudi Arabia, including one that was launched toward the southern city of Khamis Mushait. Since the beginning of this year, Yemen's Iran-backed Houthi militia have launched dozens of explosive drone and ballistic missile attacks targeting civilian areas and vital energy infrastructure in SAU.
timesofisrael.com 02.05.2021 11:05 PM	IRQ/USA: Two rockets target Baghdad airport base housing US troops	Two rockets targeted an airbase at Iraq's Baghdad airport housing US-led coalition troops on Sunday, in the second such attack in 10 days, a security source said. One of the projectiles was intercepted by the C-RAM counter rocket, artillery and mortar system deployed to protect US troops in Iraq, the source told AFP. There was no immediate claim of responsibility or report of casualties.
alarabiya.net 01.05.2021 02:06 AM	SAU:	Saudi Arabia intercepted and destroyed an unspecified "hostile air target" aimed at Jeddah, the Defense Ministry said on Saturday. The ministry did not provide further information nor did it say who could have been behind the attack.

	Saudi Arabia intercepts 'hostile air target' aimed at Jeddah	
ekathimerini.com 30.04.2021	GRC: Passenger airplane bomb scare over south Aegean	An El Al airplane bound for Israel from New York's JFK airport had to be briefly escorted by fighter jets on Friday morning after the alarm was raised over the southern Aegean that it may be carrying a bomb or be in the control of hijackers. According to unconfirmed reports in local media, Greek fighter jets were dispatched along with French NATO aircraft responding to the alarm on the passenger plane, which was sounded at around 9 a.m. over the southern Aegean island of Milos. The airplane landed safely in Israel on Friday morning after it was ascertained that it was not under any threat.
focustaiwan.tw 30.04.2021 09:53 PM	TWN/CHN: Five Chinese military aircraft enter Taiwan's ADIZ	Five Chinese military aircraft entered Taiwan's air defense identification zone (ADIZ) on Friday, including two multi-role strike fighters, according to Ministry of National Defense (MND) data. The aircraft involved in the sorties were two J-16 multi-role fighters, one Y-8 electronic warfare aircraft, one Y-8 anti-submarine aircraft, and one KJ-500 airborne early warning and control plane, the MND said. All of the aircraft limited themselves to airspace in the southwest quadrant of Taiwan's ADIZ, except for the Y-8 anti-submarine aircraft, which flew as far as the other side of Taiwan, an MND chart showed.
reuters.com 29.04.2021 08:06 PM	ISR/IRN: Our warplanes can reach Iran, Israeli minister warns amid nuclear talks	Iran, which this week resumed indirect talks with U.S. envoys in Vienna on reversing its retaliatory violations of the deal in exchange for the removal of sanctions reimposed by Trump, has ruled out any further limitations on Iranian actions. Reiterating Israel's position that it does not consider itself bound by the diplomacy, Intelligence Minister Eli Cohen said: "A bad deal will send the region spiralling into war. Anyone seeking short-term benefits should be mindful of the longer-term," he told Reuters. "Israel will not allow Iran to attain nuclear arms. Iran has no immunity anywhere. Our planes can reach everywhere in the Middle East - and certainly Iran."
presstv.com 28.04.2021 06:09 PM	GAZA/ISR: 'Dropping like flies,' another Israeli drone falls in Gaza	Lebanon's al-Mayadeen television network on Wednesday cited Israeli media reports as saying that the aircraft fell on the roof of a home in Beit Hanoun in northern Gaza and was delivered by locals to the headquarters of the resistance movement Hamas. Some Palestinian media outlets had a different narrative. They said the drone was 'shot down' by resistance forces while flying over Gaza.
english.defensie.nl 28.04.2021	NLD: Dutch Chinook helicopters to the rescue	Last week, 2 CH-47D Chinook helicopters of the Royal Netherlands Air Force helped to extinguish a major fire that was raging on the Groot Schietveld military terrain in Belgium, just across the border near Zundert.

	in extinguishing a fire in Belgian nature reserve	
jpost.com 28.04.2021 05:34 AM	ISR/GAZA: Two rockets launched from Gaza, failing to enter Israel	The IDF spokesperson announced that the alarm sounding in Kissufim was due to two failed rocket launches towards Israel, which fell in an open field in the Gaza Strip, i.e. both rockets exploded inside Gaza. The rockets came after two days of relative quiet along the Gaza border, which was preceded by period of escalation in which dozens of rockets were fired since last week, coinciding with high tensions between Palestinians and Jews in Jerusalem.
taiwannews.com.tw 27.04.2021 19:59 PM	TWN/CHN: Taiwan catches PLA plane trying to sneak below radar at only 30 meters	Taiwan's military on Monday (April 26) intercepted a Chinese spy plane apparently trying to test the country's radar capabilities by flying at an extremely low altitude of only 30 meters. On Monday, Taiwan's Ministry of National Defense announced that a Y-8 electronic warfare plane (Y-8 EW) and a Y-8 tactical reconnaissance aircraft (Y-8 RECCE) intruded into Taiwan's air defense identification zone (ADIZ) that morning. According to the MND, it dispatched aircraft, issued radio warnings, and deployed air defense missile systems to monitor the activity.
timesofisrael.com 27.04.2021 09:57 PM	ISR/HEZBOLLAH: IDF: Hezbollah drone downed after breaching Israeli airspace	Israeli soldiers on Tuesday downed a drone belonging to Lebanon's Hezbollah terror organization after it entered Israeli airspace, the military said. Soldiers also located a second drone that was downed on the Israel-Lebanon border several months ago, according to the Israel Defense Forces.
ac.nato.int 26.04.2021	NATO: NATO allies continue enduring Air Policing mission in Baltic region	Three Allies will continue to safeguard the airspace over the Baltic with their fighter aircraft demonstrating Alliance cohesion, solidarity and deterrence. Deployments start in May. At <u>Šiauliai Air Base, Lithuania</u> , the <u>Spanish Air Force</u> will lead the Baltic Air Policing mission with Eurofighter aircraft from 14th Wing stationed Albacete, Spain. In 2016, the Wing's Eurofighters already conducted the NATO mission here. <u>Italian Air Force</u> F-35 fighter aircraft from Amendola Air Base, Italy, will for the first time fly out of <u>Ämari Air Base, Estonia</u> , and augment the mission under enhanced Air Policing. This first fifth-generation aircraft deployment shows how NATO's air forces are adapting to the mission by employing advanced technology for enduring missions. From mid-May to September, the <u>Turkish Air Force</u> is scheduled to deploy their F-16 fighter aircraft and approx. 80 personnel from 6th Air Base at Bandirma, Turkey, to <u>Malbork Air Base, Poland</u> ; after a deployment to Lithuania in 2006, the Turkish Air Force returns to the region to augment NATO's enhanced Air Policing mission.
economictimes. indiatimes.com	IND:	A heavy-lift transport aircraft of the Indian Air Force was on Monday sent to Dubai to airlift seven empty cryogenic oxygen containers, officials said. They said the C-17 aircraft has already landed in Dubai. "After

26.04.2021	IAF sends aircraft to Dubai to bring seven empty cryogenic oxygen containers	loading, the aircraft will get airborne for Panagarh in West Bengal and is likely to arrive there at 5:30 pm," said an official. India is struggling with a second wave of coronavirus infection and hospitals in several states are reeling under shortage of medical oxygen and beds in view of rising COVID-19 cases.
taiwannews.com.tw 26.04.2021 09:40 AM	TWN/CHN: Chinese military aircraft enters Taiwan's ADIZ	A single People's Liberation Army Air Force (PLAAF) Shaanxi Y-8 anti-submarine warfare plane flew into the southwest corner of Taiwan's ADIZ on Sunday morning (April 25), marking the 20th intrusion this month. In response, Taiwan sent planes, issued radio warnings, and deployed air defense missile systems to track the PLAAF plane.
jpost.com 26.04.2021 06:23 AM	ISR/GAZA: Sirens heard in Sderot as 3 rockets launched into Israel from Gaza	Rocket sirens went off in Sderot and in the Gaza border area in the early hours of Monday morning as three rockets were launched into Israel from the Gaza Strip. The IDF confirmed that two of the rockets were intercepted, with a video of one interception shared on social media. The third rocket fell in an open area near Gaza. Around 40 rockets have been launched since the weekend.  <i>(Ergänzende Information jpost.com vom 26.04.2021 21:34 PM: The IDF will respond powerfully if rocket fire from Gaza continues, the security cabinet decided on Monday. The cabinet authorized Prime Minister Benjamin Netanyahu and Defense Minister Benny Gantz to instruct the IDF to react strongly if Gazan terrorist groups launch more rockets. The ministers also voted in favor of an operational plan to strike Hamas.)</i>
aljazeera.com 25.04.2021	TUR/IRQ: Turkish forces attack PKK targets in northern Iraq	Turkey's army hit Kurdish fighters in northern Iraq in a new ground-and-air offensive. The operation began on Friday and involved special forces backed by drones and attack helicopters. The Turkish army regularly conducts cross-border operations and air attacks against PKK bases in northern Iraq.
jpost.com 24.04.2021 22:06 PM	IRN/SYR: Iranian fuel tanker attacked by drone, Israel suspected	An Iranian tanker was reportedly attacked off the Syrian coast on Saturday, according to the British-based Syrian Observatory for Human Rights. It was unclear what had happened, as Iran media was slow to report details. However, the Syrian state media did quote an oil ministry member as saying a fire took place on "what was believed to be an attack by a drone." Iran's Arabic-language al-Alam TV said there was some damage to an Iranian tanker but no casualties. The pro-Damascus al-Mayadeen TV said the tanker was suspected to have been hit by an Israeli drone. The Israeli military declined to comment on the incident.  <i>(Ergänzende Information timesofisrael.com vom 25.04.2021 00:50 AM: At least three people died when an Iranian tanker was attacked off Syria's coast Saturday, outside the Baniyas refinery, a war monitor said. "At least three Syrians were killed, including two members of the crew" in the attack that sparked a fire, said Rami Abdel Rahman, head of the</i>

		<p>Britain-based Syrian Observatory for Human Rights said. It was not clear who carried out the attack, the war monitor said. It was also not clear if a drone or a missile was used in the attack, the Observatory said.)</p> <p>(Ergänzende Information tasnimnews.com vom 25.04.2021 09:08 AM: A fire that erupted on an oil tanker off Syria's coast had not been caused by a military attack, but broke out due to incautiousness and lack of safety precautions, said a Syrian military official, correcting an earlier report.)</p>
jpost.com 24.04.2021 05:56 AM	ISR/GAZA: IDF retaliates after barrage of at least 36 rockets from Gaza	<p>An IDF tank attacked a Hamas outpost as IAF aircraft struck rocket launchers and underground infrastructures in retaliation after a series of rockets were launched into Israeli territory from Gaza on Friday night landing near the Gaza envelope region of southern Israel, the IDF spokesperson reported on Friday. Overall, the IDF reported six rockets being intercepted by the Iron Dome system during the night.</p> <p>(Ergänzende Information timesofisrael.com vom 24.04.2021 11:58 AM: The Iron Dome missile defense system intercepted six of the projectiles. Some fell in communities while others landed in open areas. Iron Dome is programmed to not deploy when rockets are projected to hit non-populated areas — it was unclear why it had not activated to intercept the projectiles that landed in the border towns.)</p>
afcent.af.mil 23.04.2021	CENTCOM: B-52s arrive at Al Udeid AB in support of Afghanistan drawdown	<p>Two U.S. Air Force B-52H Stratofortress aircraft from the 5th Bomb Wing, Minot Air Force Base, N.D., arrived at Al Udeid Air Base, Qatar, April 23. The bombers, which are the first two in the group announced today by the Department of Defense, are deployed to the U. S. Central Command region to protect U.S. and coalition forces as they conduct drawdown operations from Afghanistan. The bombers will be accompanied by support Airmen from the 5th Bomb Wing.</p> <p>(Ergänzende Information wsj.com vom 23.04.2021: The White House on Friday approved the temporary deployment of B-52 bombers and as many as six as a way to protect American and North Atlantic Treaty Organization forces, as they leave Afghanistan starting in less than two weeks, could be headed to the region for this tasking.)</p>
tass.com 23.04.2021 10:42 AM	RUS: US fighter jets escort two Russian Tu-142 anti-submarine warfare planes over Pacific	<p>US Navy F/A-18 fighter jets escorted two Russian Tu-142 anti-submarine warfare planes at some sections of a ten-hour flight over the Pacific Ocean, the press office of Russia's Pacific Fleet reported on Friday. In the course of their flight, the crews of the Russian anti-submarine warfare aircraft covered a distance of about 8,000 km. The Russian Tu-142 aircraft performed their flight "in strict compliance with the international rules of using the airspace," the press office stressed.</p>
tass.com 23.04.2021	RUS: Russia scrambles	<p>A MiG-31 fighter from the Eastern Military District's air defense forces was scrambled to identify the aerial target and prevent any violations of Russia's state border. The Russian fighter crew identified the aerial target</p>

10:01 AM	MiG-31 fighter to accompany US spy plane over the Pacific	as a US Air Force RC-135 strategic reconnaissance aircraft and escorted it over the waters of the Pacific Ocean. No violations of Russia's state border were allowed," the press service said.
airforcemag.com 20.04.2021	USA: U.S. Forces Operating 'Without Complete Air Superiority' Due to Small, Armed Drones	The proliferation of small unmanned aerial systems, usually commercially available drones that can be outfitted to drop weapons, is the most "persistent and dangerous" threat to troops in the Middle East in decades. "These small- and medium-sized UAS proliferating across the [area of operations] present a new and complex threat to our forces and those of our partners and allies," U.S. Central Command boss USMC Gen. Kenneth F. McKenzie Jr. told the House Armed Services Committee on April 20. "For the first time since the Korean War, we are operating without complete air superiority." The counter-UAS effort is a "top priority" for CENTCOM. There are existing air defense and missile defense systems that can track inbound threats, and the command is looking at several systems to counter UAS, but their small size makes that a difficult task.
		<b>Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance</b>
defense.gov 05.05.2021	USN/USMC: AN/APG-79(V)4 radar	Raytheon Co. is awarded a \$20,040,000 modification (P00006) to a previously awarded fixed-price-incentive-fee contract (N0001920C0001). This modification exercises an option to procure six AN/APG-79(V)4 radar systems. Additionally, this modification provides software, obsolescence management, engineering support and associated technical, financial, and administrative data necessary for AN/APG-79(V)4 replacement radar retrofit integration into the F/A-18C/D aircraft for the Marine Corps. Work is expected to be completed in November 2022.
lockheedmartin.com 03.05.2021	USAF: Lockheed Martin Skunk Works®' Project Hydra Demonstrates 5th Gen To 5th Gen Communications Across Domains	Lockheed Martin Skunk Works®, the Missile Defense Agency and the U.S. Air Force successfully linked a U-2, five F-35s and an F-22 in air and provided real-time 5th Generation data to operators on the ground, introducing greater mission flexibility across domains and an enhanced total operational picture for the joint warfighter. Named Project Hydra, the latest flight test leveraged an Open Systems Gateway (OSG) payload aboard the U-2 to connect an F-22 to five F-35s via native Intra-Flight Data Link (IFDL) and Multifunction Advanced Data Link (MADL), successfully sharing data between all airborne aircraft and with nodes on the ground. The target tracks were also transmitted by and through the U-2 into the fighter avionics and pilot displays.  <i>(Vollständige Medienmitteilung abrufbar unter:</i>

		<a href="https://news.lockheedmartin.com/lockheed-martin-skunk-work-project-hydra-demonstrates-5th-gen-to-5th-gen-communications-across-domains">https://news.lockheedmartin.com/lockheed-martin-skunk-work-project-hydra-demonstrates-5th-gen-to-5th-gen-communications-across-domains</a>
raytheonintelligence- andspace.com 29.04.2021	USMC: Raytheon Intelligence & Space Delivered Prototype Radar to U.S. Marine Corps	Raytheon delivered the APG-79(V)4 AESA radar prototype to the U.S. Marine Corps. The prototype allows for early flight testing and completion of weapon systems integration on the USMC F-18C/D Hornet legacy fleet. The APG-79(V)4 is a scaled version of the APG-79 AESA radar that helps pilots detect and track enemy aircraft from farther distances and with more accuracy than the legacy APG-73 system. The smaller radar shares much of the same parts and technology as the AN/APG-79 radar used in the F/A-18 Super Hornet aircraft. The radar's improved targeting capabilities provide an edge in crucial operations including air-to-air, maritime strike and air-to-surface missions. Powered by gallium nitride (GaN), the APG-79(V)4 is the first domestic implementation of a GaN-based fire control radar, with GaN Transmit/Receive Modules embedded directly into the array. The first 25 production AESA radars will be delivered starting in December 2021 as part of the \$83.6 million production contract awarded in 2020.
bmvg.de 28.04.2021	DEU/IND: Corona-Krise: Bundeswehr unterstützt Indien mit Hilfsleistungen	Die Bundeswehr plant, mit drei Transportflugzeugen eine Anlage zur Sauerstoffherstellung und 120 Beatmungsgeräte des Bundesministeriums für Gesundheit nach Indien zu bringen. Bis zu 16 Sanitätskräfte sollen vor Ort bis zu zwei Wochen bei Aufbau und Einweisung der Anlage unterstützen. Die Hilfsgüter werden dem indischen Roten Kreuz übergeben. Zwei A400M-Transportflugzeuge sollen die Sauerstoffherstellungsanlage transportieren, ein A350 die 120 Beatmungsgeräte. Die Flugzeuge sollen nach Einholen der notwendigen diplomatischen Freigaben so schnell wie möglich starten.
defense.gouv.fr 28.04.2021	FRA: The E-3F AWACS now operate from Châteauroux	Major upgrades to the aeronautical areas of Avord Air Base (BA) 702 will soon accommodate the A330 Phoenix, requiring the relocation of the AWACS E-3F activity of the 36th Airborne Command and Conduct Wing (EC2A). With beautiful aeronautical infrastructure enabling the E-3F Awacs to carry out all their operational missions, Châteauroux Centre Airport will host BA 702 aircraft and personnel until the end of 2021 and the completion of work on the Avord runway.
en.yna.co.kr 27.04.2021	KOR: S. Korea develops new radar technology capable of detecting stealth fighters	A state-run defense development agency said Tuesday it has completed the development of a new high power and high sensitivity radar technology capable of detecting stealth fighter jets. The new technology will be used for wide area surveillance to monitor military aircraft operated by neighboring countries near the Korean Peninsula, according to the Agency for Defense Development. "Securing a homegrown radar technology to detect warplanes with a low radar cross section was essential as they can penetrate deep into enemies' territories without being exposed to air defense networks," the agency said in a release.

<p>ga-asi.com 22.04.2021</p>	<p>USAF: GA-ASI Further Expands MQ-9 Mission Capability</p>	<p>The U.S. Air Force, General Atomics Aeronautical Systems, Inc. (GA-ASI) and L3Harris Technologies have collaborated to further expand the mission capabilities of the U.S. Air Force’s versatile MQ-9 Reaper® Remotely Piloted Aircraft (RPA). For the first time, crews from the Air Force’s 26th Weapons Squadron (WPS) flew an MQ-9 equipped with the Reaper Defense Electronic Support System (RDESS). RDESS is a broad spectrum, passive Electronic Support Measure (ESM) payload designed to collect and geo-locate signals of interest from standoff ranges. With it, the Reaper becomes an even more versatile surveillance aircraft given its ability to conduct electronic sensing well enough to provide high quality intelligence but also keep safely away in friendly or international airspace. Additionally, the aircraft flew with a high-capacity, solid-state digital recorder to collect Multi-Spectral Targeting pod data that will be used to further Artificial Intelligence (AI) and Machine Learning (ML) development.</p>
<p>globaltimes.cn 22.04.2021</p>	<p>CHN : China’s anti-stealth tech shines at radar expo</p>	<p>As countermeasures to stealth aircraft, some of the most advanced weapons in the world that challenge air defense systems, several types of anti-stealth radar systems developed by China attracted attention from the visiting crowds.</p> <p>Developed by the No.14 Research Institute of the CETC under the concept that radar systems are facing increasingly diverse threats, the SLC-7 L-band 3D surveillance radar system can take on targets including stealth aircraft, helicopters, drones, cruise missiles, tactical ballistic missiles, near-space targets, and artillery shells and rockets. The SLC-7 can detect and track multiple targets at the same time, withstand saturation attacks, adapt to jamming, and rapidly identify targets.</p> <p>Another anti-stealth radar system on show is the YLC-8E UHF-band 3D surveillance radar system, the flagship anti-stealth product of China and a representative product of the world-leading technology of the No.14 Research Institute. With key parameters that are superior to foreign competitors, the YLC-8E can detect even the most advanced stealth aircraft, its developer said, noting that most UHF-band radars suffer from low detection accuracy, but the developers of the YLC-8E solved this problem by meeting the high demands of components and processing power.</p> <p>The No. 38 Research Institute of the CETC also displayed its anti-stealth radar, the JY-26 long-range 3D warning radar, at the expo. It works on UHF-band and can conduct anti-aircraft and anti-missile missions, particularly against stealth aircraft, its developer told the Global Times on Thursday.</p> <p>Also on display at the World Radar Expo is the YLC-48 portable multifunctional reconnaissance radar against drones, the YLC-18 3D blind compensation radar for targets like aircraft and cruise missiles flying at medium</p>

		and low altitudes, and the KLJ-7A, China's first airborne active electronically scanned array fire control radar available for export.
		<b>Cyber- und Electromagnetic Warfare</b>
usafe.af.mil 29.04.2021	USAFE: EC-130 Compass Call aircraft arrive at Ramstein Air Base, Germany	<p>U.S. Air Force EC-130H Compass Call aircraft from the 55th Electronic Combat Group, Davis-Monthan Air Force Base, Ariz., arrived at Ramstein Air Base, Germany, to conduct training with Europe-based units, April 28, 2021. The EC-130H is an airborne tactical weapon system within a heavily modified version of the C-130 Hercules airframe. The system disrupts enemy command and control communications and limits adversary coordination that is essential for enemy force management. The Compass Call system employs offensive counter-information and electronic attack capabilities in support of U.S. and coalition forces. During their time in the European theater, the aircraft and Airmen will participate in training exercises and events to underscore the steadfast U.S. commitment to NATO and enhance interoperability with allies and partners.</p> <p><i>(Factsheet EC-130H Compass Call abrufbar unter:</i>  <a href="https://www.af.mil/About-Us/Fact-Sheets/Display/Article/104550/ec-130h-compass-call/">https://www.af.mil/About-Us/Fact-Sheets/Display/Article/104550/ec-130h-compass-call/</a><i>)</i></p>
bmvg.de 22.04.2021	DEU: Die Elektronische Schutzausstattung der CH-53 wird aktualisiert	14 Hubschrauber CH-53 GS/GE (Gesetzliche Schutzaufgaben/German Enhanced) erhalten nun eine verbesserte elektronische Schutzausstattung. Für die bisher genutzten Untersysteme Radar-, Laser-, Flugkörperwarnanlage und Täuschkörperabwurfanlage sind Ersatzteile nicht länger erhältlich. Sie werden deshalb durch moderne Systeme ausgetauscht. Die elektronische Schutzausstattung dient zum Schutz des Hubschraubers und der Besatzung vor infrarot-, radar- oder lasergelenkten Flugkörpern. Bei Bedarf können weitere zwölf Helikopter umgerüstet werden. Die CH-53 sollen bis 2030 durch den neu zu beschaffenden schweren Transporthubschrauber abgelöst werden.
sputniknews.com 22.04.2021	RUS: Russian Military Reportedly Creates 'Dead Zones' for Enemy Drones and Cruise Missiles	The significance of cruise missiles and drone warfare has become all too apparent in the 21st century. The Russian military is training to create 'dead zones' completely inaccessible to enemy drones, cruise missiles and other precision weapons, Russian media reports, citing military sources. Sources indicate that the dead zone concept has already been worked out and adopted, and that Electronic Warfare Troops units in several military districts have been practising the concept's employment through drills. Large-scale exercises at the national level are expected to begin next year.

		<p>The military has been understandably mum about the hardware involved in the ‘dead zone’ concept. However, last week, the Defence Ministry dropped a major hint in a press release indicating the 49th Combined Army of the Southern Military District had carried out its first-ever deployment of the Polye-21M (literally ‘Field-21M’) radio electronic warfare station, with mobile EW units accompanying battalion-sized tactical forces, creating continuous jamming fields up to 50 km wide.</p> <p>Along with the Polye-21M, the military is also equipped with the Murmansk-BN, a much more powerful mobile electronic warfare system capable of suppressing operational-strategic communications between enemy headquarters and their warships or aircraft. These systems have a range of up to 5,000 km, and are geared toward interfering with high frequency communications systems, including the High Frequency Global Communications System (HFGCS) – the worldwide network of transmitters providing command and control communications between HQs and US military aircraft and ships. In addition to the US, the system is said to be accessible by its NATO allies.</p> <p><i>(Vollständiger Report abrufbar unter:  <a href="https://sputniknews.com/military/202104221082699675-russian-military-reportedly-creates-dead-zones-for-enemy-drones-and-cruise-missiles/">https://sputniknews.com/military/202104221082699675-russian-military-reportedly-creates-dead-zones-for-enemy-drones-and-cruise-missiles/</a>)</i></p>
		<b>Boden- und seegestützte Luftverteidigungssysteme</b>
dailysabah.com 04.05.2021	TUR: Turkey’s Hisar-A+ missile hits target aircraft in test-firing	<p>Turkey’s Hisar-A+ missile hit a target aircraft in an inspection and acceptance test firing, the National Defense Ministry said Tuesday. It said in a statement released on Twitter that the test-fire was carried out at the Aksaray Shooting Range on May 3, 2021, from an Autonomous Missile Launching System. The Hisar-A+ short-range air defense system is the upgraded version of Hisar-A, which is part of the medium and long-range Hisar air defense systems family. The Hisar-A+ system will be part of the country’s layered air defense.</p> <p>Earlier this year in March, the Hisar-O+ medium-range air defense system also completed a test-fire, which was the longest range and the highest altitude test conducted in the country to date. The Hisar project has major Turkish defense firms as stakeholders, namely, Aselsan and Roketsan who partnered in the development of the air defense system.</p>
irrawaddy.com 03.05.2021	MMR:	The Kachin Independence Army (KIA) shot down a Myanmar military helicopter as it was conducting air strikes in Momauk, Kachin State at around 10 a.m. on Monday, KIA information officer Colonel Naw Bu confirmed to

	Kachin Independence Army Shoots Down Myanmar Helicopter	The Irrawaddy. "It happened at around 10:20 a.m. today. The attack on the gunship scared away two fighter jets accompanying the helicopter," he said.
en.yna.co.kr 30.04.2021	USA: U.S. conducts 2 tests for THAAD-Patriot system integration last year: government report	<p>The U.S. missile defense agency conducted two missile flight tests last year to integrate its Patriot and THAAD missile systems, but they were unsuccessful due to software problems, a U.S. government report has showed. The U.S. is working to upgrade its Terminal High Altitude Area Defense (THAAD) batteries around the world, including one in South Korea, to add advanced radar and to integrate the system with Patriot missiles. The integration is expected to increase the coverage area of the Patriot batteries.</p> <p>The U.S. missile agency was also able to deliver 82 out of 132 planned missiles around the world last year. Of the assets delivered, 42 were THAAD interceptors. As an integral part of the U.S.' missile defense system, THAAD is a mobile, ground-based system designed to defend against short-, medium-, and limited intermediate-range missiles at a high altitude in their terminal phase. It uses a battery that consists of interceptors, launchers, radar, and fire control and communication systems.</p>
tass.com 29.04.2021	IND: First regiment set of S-400 air defense systems to arrive in India by year-end	India will receive the first regiment set of Russian S-400 surface-to-air missile systems by the end of this year, India's Ambassador to Russia Bala Venkatesh Varma told a briefing on Thursday. New Delhi announced its intention to purchase Russian-made S-400 air defense systems back in 2015. A \$5.43 bln contract on the delivery of five regiment sets of S-400 'Triumf' anti-aircraft missile systems was signed during Russian President Vladimir Putin's visit to India in October 2018.
en.yna.co.kr 26.04.2021	KOR: PAC-3 Interceptor	The South Korean Government endorsed a plan to purchase Patriot Advanced Capability (PAC)-3 missile interceptors from the United States through a government-to-government foreign military sale (FMS) program. The 770 billion won project also calls for the improvement of some of the Air Force's PAC-2 missile launchers to fit the PAC-3 interceptors, the DAPA noted. It will be pushed for in 2022-2027.
army.mil 23.04.2021	US ARMY: M-SHORAD system bolsters Army's air defense capabilities	In continuing efforts to revitalize and update the U.S. Army's Air and Missile Defense forces and systems, the 5th Battalion, 4th Air Defense Artillery Regiment (5-4 ADA), a subordinate unit under the 10th Army Air and Missile Defense Command, is the first battalion in the Army to test, receive, and field the Mobile Short Range Air Defense (M-SHORAD) system. The M-SHORAD, which integrates existing guns (30mm M230 automatic cannon and a 7.62mm M240 machine gun), missiles (FIM-92 Stinger), rockets (millimeter-wave radar-guided AGM-114L Longbow Hellfire) and sensors onto a Stryker A1 vehicle, is the Army's newest addition in a variety of modernization efforts. The system is designed to defend maneuvering forces against unmanned aircraft systems, rotary-wing and residual fixed-wing threats. The unit initially received four systems in April, and is

		<p>expected to receive more later this year, beginning its transition from an Avenger-based battalion to the first fully-operational M-SHORAD battalion in the U.S. Army.</p> <p>The Army intends to field the M-SHORAD system to four additional Air and Missile Defense battalions beginning in 2021. Future development of follow-on M-SHORAD systems will incorporate technology insertions, to include directed energy and improved missiles, utilizing a mix of complementary DE and kinetic interceptor systems to protect maneuver forces.</p>
		<p><b>Boden- und seegestützte Einsatzkräfte, Strategische Kampfmittel und Space Forces</b></p>
<p>tass.com 05.05.2021</p>	<p>RUS: Russia to hold three test launches of its newest Sarmat ICBM this year</p>	<p>Russia will carry out three test launches of its advanced Sarmat intercontinental ballistic missile (ICBM) this year, sources in Russia's defense industry and close to the Russian defense ministry have told TASS. "Three launches of the Sarmat ICBM will be carried out as part of flight development tests in 2021," one of them said. "The first launch of the Sarmat ICBM within the framework of flight development tests will be carried out tentatively in the third quarter of 2021, a field at the Kura testing range on Kamchatka will be a target," another source said. The sources told TASS that all the three launches would be performed from a silo at the Plesetsk space center in northwestern Russia. One of those missiles will probably be fired at its maximum range.</p> <p>State trials of Sarmat are due to begin in 2022, with first regiment entering combat service at the end of the year, the sources said. The defense ministry is already purchasing serially produced missiles. Sarmat is to replace R-36M2 Voevoda missiles, which have been the most powerful in the world and operational since 1970s. Sarmat considerably exceeds the predecessor. Some of its characteristics were disclosed at Army-2019 forum. The new missile weighs 208.1 tons, the payload is close to 10 tons and the fuel is 178 tons. The range of Sarmat is 18 thousand kilometers.</p> <p>Open sources said Sarmat has completely new means to counter missile defense. Its active flight stage, when the missile accelerates and is visible and vulnerable to missile defense, has been reduced. The shorter acceleration section is important for the breakthrough of missile defense, as the separation of reentry vehicles and discharge of dummy targets are possible only after the boost. Sarmat engines rapidly boost the missile to the safe zone and make it invulnerable for the missile defense until it reaches the main flight trajectory. It can fly by unpredictable routes and bypass missile defense areas. It can fly over the North and South Pole and approach targets from directions that are not envisaged for interception. Sarmat can carry a line of reentry vehicles, including hypersonic Avangard gliders.</p>

globaltimes.cn 02.05.2021 02:39 PM	CHN: China's 2nd aircraft carrier group holds 1st drill in 2021 in S.China Sea, 'training for combat preparedness'	An aircraft carrier group led by China's second aircraft carrier, the Shandong, is conducting a series of exercises in the South China Sea in its first known voyage of the year, almost immediately after the country's first carrier, the Liaoning, left the region, and Chinese analysts said on Sunday that the move highlighted the fact that the two aircraft carriers that China currently operates are actively training for combat preparedness. Having two aircraft carriers means the PLA Navy can deploy these large warships more often, according to the anonymous expert, who noted that when one undergoes maintenance, the other can take its place.
reuters.com 29.04.2021 11:07 AM	BUR: Rockets fired at two Myanmar air bases, no casualties - military	Unidentified attackers fired rockets at two Myanmar air bases on Thursday but there were no casualties and only minor damage in another sign of deteriorating security since the military overthrew an elected government three months ago. There was no claim of responsibility for the attacks, which the military confirmed at a news briefing. While the armed forces have been battling insurgents in remote frontier regions for decades, attacks on such high-profile military facilities in central areas have been rare.  In the first attack, four rockets were fired at an air base near the central town of Magway in the early hours, an announcer at the military news briefing said on a feed posted on the internet. Three of the rockets hit farms and one fell on a road. One building at the base was slightly damaged but no one was hurt, she said. Later, five rockets were fired at one of the country's main air bases, at Meiktila, which is also in central Myanmar, from a farm to the north of the base but there was no damage nor any casualties.
asia.nikkei.com 29.04.2021	CHN: China launches rocket for second manned space station	China successfully launched a rocket on Thursday carrying the core capsule for the construction of the country's maiden space station. The Long March-5B Y2 rocket left its launchpad in the southern province of Hainan shortly after 11 a.m. local time, according to the China Manned Space Agency, with the core capsule Tianhe, or Harmony of Heavens, measuring 16.6 meters long and 4.2 meters wide. When complete, Tianhe will form the key structure of a 90-metric-ton T-shape space station called Tiangong, or Heavenly Palace, becoming the second such space facility in orbit following the International Space Station. The ISS is sponsored by the U.S. and countries including Russia, Japan and Canada. Tiangong, scheduled for completing next year, will consist of the core capsule and two experimental modules to host astronauts and their scientific research. Thursday's launch marks the second for the Long March 5B, the country's heavy-duty orbital rocket that made its maiden flight last year.
globaltimes.cn 28.04.2021	CHN/JPN: China's Liaoning aircraft carrier group crosses	The Liaoning aircraft carrier task group of the Chinese People's Liberation Army (PLA) Navy reportedly crossed the Miyako Strait again on Monday and sent an aircraft near the Diaoyu Islands on Tuesday, which Chinese experts said sends a warning to Japan amid the country's recent, repeated wrong statements on China's Diaoyu

	Miyako Strait, patrols Diaoyu Islands, 'warning to Japan'	<p>Islands. Similar PLA activities will likely become routine depending on China-Japan relations, experts said. The Japan Maritime Self-Defense Force spotted a PLA Navy flotilla consisting of six warships, namely the aircraft carrier Liaoning, the Type 055 large destroyer Nanchang, the Type 052D destroyers Chengdu and Taiyuan, the Type 054A frigate Huanggang and the Type 901 comprehensive supply ship Hulunhu, which passed through waters between Okinawa Island and Miyako Island and sailed north toward the East China Sea on Monday.</p> <p><i>(Ergänzende Information the-japan-news.com vom 28.04.2021: While the MSDF vessel continued to watch them, a Z-18 early warning helicopter took off from the Liaoning on Tuesday morning. The MSDF vessel confirmed that the helicopter flew in an air zone about 50 to 100 kilometers northeast of the Senkaku Islands in Okinawa Prefecture. It was the first time that the ministry made public an instance of a helicopter taking off from the Liaoning.)</i></p>
defense.gouv.fr 28.04.2021	FRA: Communiqué_Succès of an M51 missile test firing without military charge	This morning, the Directorate General of Armament (DGA) successfully conducted a test firing of the M51 missile without military charge from the Landes site of DGA Missile Tests. The missile was tracked throughout its flight phase by DGA Missile Tests. The fallout zone is located in the North Atlantic several hundred kilometres from any coast. This test was carried out without a military nuclear charge and in strict compliance with France's international commitments. This M51 weapons programme responds to the will of the President of the Republic, who has committed himself to take the necessary decisions to maintain the operational credibility of the nuclear forces in the long term, at the level of strict sufficiency required by the international environment.
defense.gov 27.04.2021	US ARMY: FGM-148A Javelin	Raytheon/Lockheed Martin Javelin JV was awarded a \$175,936,936 modification (P00037) to contract W31P4Q-19-C-0076 for the Javelin Weapon System. Work has an estimated completion date of Nov. 30, 2023. Fiscal 2010 Foreign Military Sales (Lithuania and Taiwan) funds; and 2021 missile procurement, Army funds.
globaltimes.cn 27.04.2021	CHN: China's new amphibious assault ship to carry multi-type helicopters, 'enters world-class' ranks	<p>The newly commissioned amphibious assault ship of the Chinese People's Liberation Army (PLA) Navy will carry multiple types of helicopters including those for assault, transport and reconnaissance, and analysts said on Tuesday that the vessel is of world-class standard and can serve its purpose well in islands and reefs close to the Chinese mainland despite the lack of fixed wing fighter jet like the US' F-35B. After the Hainan, China's first Type 075 amphibious assault ship, entered PLA naval service on Friday, the insignia of the vessel was revealed by js7tv.cn, a video news website affiliated with the PLA, on Monday.</p> <p>In addition to an artistic depiction of the Hainan, the insignia also featured what seem to be the Z-20 and Z-8 helicopters and a helicopter drone landing on and flying above the ship's flight deck, observers pointed out. This indicates that the Hainan will carry multiple types of helicopters in its future missions, analysts said. During the commissioning ceremony on Friday, only Z-8 helicopters were seen on the flight deck of the Hainan. These</p>

		<p>helicopters will be the main aerial combat forces of the Type 075, Shi Hong, executive chief editor of the Chinese magazine, Shipborne Weapons, told the Global Times on Tuesday. Responsible for aerial transport and assault tasks, the Z-8 and the Z-20 can carry troops deep behind hostile defense lines in vertical landing missions, Shi said. In the future, attack helicopters like the Z-10 and Z-19 affiliated with the PLA Army aviation forces could also board the Type 075, Shi predicted.</p> <p>In addition to the Hainan, China has launched two more Type 075 amphibious assault ships, which are currently undergoing outfitting work and sea trials.</p>
<p>news.usni.org 26.04.2021</p>	<p>USN: Unmanned Systems, Passive Sensors Help USS John Finn Bullseye Target With SM-6</p>	<p>Using a blend of information from unmanned and manned ships and aircraft, a guided-missile destroyer launched an anti-surface missile from over-the-horizon to hit a target more than 250 miles away without using active sensors as part of the Unmanned Integrated Battle Problem 21, Navy officials said on Monday. The target was equipped with a small radar reflector and a repeater that put out an electromagnetic signal. The signal from the repeater was detectable by sensors on the uncrewed aircraft and manned and unmanned surface vessels, said Carrier Strike Group 3 commander Rear Adm. James Aiken during a Monday call with reporters. The information was relayed to USS John Finn (DDG-113), which used the blended targeting data to fire a Standard Missile-6 to hit the target more than 200 miles away and beyond the range of its powerful radar. The anti-surface missile shot of the SM-6 is a proof of concept of how the Navy could augment its very powerful but very detectable targeting radars with a blended network of passive sensors that could share targeting data without alerting the target. The test also shows how the lethal radius of a surface-launched missile could expand well beyond a ship's radar range, which is limited by the curvature of the Earth. The SM-6 shot was one of three vignettes in the battle problem that was the Navy's largest exercise to date blending manned and unmanned. Other scenarios included using unmanned systems for anti-submarine warfare and information surveillance and reconnaissance.</p> <p><i>(Ergänzende Information news.usni.org vom 26.04.202: Driving much of the Navy's thinking in how it develops its future surface fleet, both manned and unmanned, is the development of Chinese anti-ship missiles that are designed to threaten U.S. surface ships in areas close to the Chinese mainland like the South China Sea. The danger of Chinese DF-21 or DF-26 anti-ship ballistic missiles finding ships from active sensors has given the Navy pause in how it's going to develop its own future surface combatants and driven the service to consider so-called attritable unmanned systems with passive sensors that don't give away their location to an enemy. A passive multi-static sensor scheme, like the one demonstrated in the SM-6 shot, that would fuse several sources into a single targeting solution would better protect the surface fleet from threats like anti-ship ballistic missiles than using a single ship with a powerful active sensor.)</i></p>

<p>navy.mil 24.04.2021</p>	<p>USN: Gerald R. Ford Successfully Completes Combat Systems Ship's Qualification Trials</p>	<p>Sailors aboard the aircraft carrier USS Gerald R. Ford (CVN 78) successfully completed Combat Systems Ship's Qualification Trials (CSSQT) on April 17, representing a major milestone in validating the ship's capability to defend itself and the crew. They used the rolling airframe missile (RAM) launchers, firing off RIM-116 missiles; the NATO launchers to fire the evolved sea sparrow missiles (ESSM), and the Mk-15 Phalanx Close-In Weapon System (CIWS) to fire armor-piercing tungsten bullets. The ship's defense missiles engaged the drones, and CIWS took out the TDUs and HSMSTs. All three towed drone units were destroyed, and two of those TDUs were ripped to shreds, according to Daugherty. All three High-Speed Maneuvering Surface Targets were destroyed as well. USS Gerald R. Ford is a first-in-class aircraft carrier and the first new aircraft carrier designed in more than 40 years. The ship is underway for Independent Steaming Event 18 (ISE 18), as part of her PDT&amp;T phase of operations.</p>
<p>asia.nikkei.com 21.04.2021</p>	<p>USA/CHN: China can 'grapple' US satellites with robotic arm, commander says</p>	<p>The U.S. military is concerned about China's rapid development of space capabilities, especially a satellite equipped with a robotic arm that could approach an enemy satellite to disable it, U.S. Space Command commander Gen. James Dickinson told Congress Tuesday. "Beijing actively seeks space superiority through space and space attack systems," Dickinson wrote in prepared remarks to the Senate Armed Services Committee. "One notable object is the Shijian-17, a Chinese satellite with a robotic arm."</p> <p>China has said the Shijian-17, or SJ-17, is an experimental satellite used to run communication and broadcast services as well as observing space debris. However, some Western organizations, including the Washington-based think tank Center for Strategic and International Studies, have noted its "unusual behavior" while in orbit.</p> <p>Space-based robotic arm technology "could be used in a future system for grappling other satellites," Dickinson said. "China also has multiple ground-based laser systems of varying power levels that could blind or damage satellite systems." China's ability to take down an U.S. satellite is significant because it is widely believed that the next major war could be decided in the opening minutes of the first day, as each side attempts to disable the enemy's communication tools, such as the Global Positioning System (GPS).</p> <p><i>(Vollständiger Beitrag abrufbar unter: <a href="https://asia.nikkei.com/Politics/International-relations/US-China-tensions/China-can-grapple-US-satellites-with-robotic-arm-commander-says?utm_campaign=RN%20Free%20newsletter&amp;utm_medium=one%20time%20newsletter%20free&amp;utm_source=NAR%20Newsletter&amp;utm_content=article%20link&amp;del_type=3&amp;pub_date=20210425093000&amp;seq_num=8&amp;si=11102475">https://asia.nikkei.com/Politics/International-relations/US-China-tensions/China-can-grapple-US-satellites-with-robotic-arm-commander-says?utm_campaign=RN%20Free%20newsletter&amp;utm_medium=one%20time%20newsletter%20free&amp;utm_source=NAR%20Newsletter&amp;utm_content=article%20link&amp;del_type=3&amp;pub_date=20210425093000&amp;seq_num=8&amp;si=11102475</a>)</i></p>

		<b>Geo- und Sicherheitspolitik, militärische Übungen</b>
thehill.com 06.05.2021 05:58 PM	USA: US adds 12 fighter jets to protect Afghanistan withdrawal	The U.S. military has added a dozen F-18 fighter jets to the military assets it is sending to protect troops as they withdraw from Afghanistan, Chairman of the Joint Chiefs of Staff Gen. Mark Milley told reporters Thursday. The F-18s are on top of the previously announced six B-52 bombers sent to Qatar and the extension of the deployment of the USS Dwight D. Eisenhower in the region.
nytimes.com 06.05.2021	RUS/UKR: 80,000 Russian troops remain in Ukraine	Russia has withdrawn just a few thousand troops from the border with Ukraine — far fewer than it had initially signaled, Biden administration officials said. Many of those units left their trucks and armored vehicles behind, ready to return if President Vladimir Putin decided to deploy them again. Senior Defense Department officials said that close to 80,000 Russian troops remained, the biggest force Russia has amassed there since annexing Crimea in 2014. Biden administration officials said they saw the Russian military presence as a message from Moscow that it could match the number of troops taking part in a NATO military exercise in Europe, which officially began yesterday.
economictimes. indiatimes.com 05.05.2021	CHN/IND: Year after Pangong clash, China reinforces positions, rotates troops along LAC	A year after Indian and Chinese soldiers first clashed on the north bank of Pangong Tso in eastern Ladakh, China is now further reinforcing its military positions and rotating troops in the “depth areas” along the Line of Actual Control in a clear signal that it has no intent to de-escalate anytime soon.  <i>(Vollständiger Beitrag abrufbar unter: <a href="https://economictimes.indiatimes.com/news/defence/year-after-pangong-clash-china-reinforces-positions-rotates-troops-along-lac/articleshow/82398052.cms">https://economictimes.indiatimes.com/news/defence/year-after-pangong-clash-china-reinforces-positions-rotates-troops-along-lac/articleshow/82398052.cms</a>)</i>
the-japan-news.com 04.05.2021	CHN/DJI: China naval base in Djibouti set to deploy aircraft carriers in Indian Ocean	China has completed work on a pier for its aircraft carrier at its naval base in Djibouti — a strategic point in East Africa facing the Gulf of Aden, the U.S. Naval Institute has reported on its news site. The Pentagon said in its annual report last autumn that China is attempting to build its military logistical facilities in Kenya, Tanzania and other African countries.
ac.nato.int 30.04.2021	NATO: NATO Tiger squadrons converge in Portugal	Around 3000 military personnel and 57 aircraft will converge on Beja Air Base, Portugal to practice their flying skills during this year’s NATO Tiger Meet from May 2 – 14. The event, this year organised by the Portuguese Air Force, will be one of the largest international exercises ever held in Portugal. It will be attended by nine fighter and helicopter squadrons from eight nations including Portugal, Greece, Italy, Netherlands, Poland, Spain, France and the USA alongside NATO Partner Switzerland. They will also be supported by a NATO E-3A AWACS.

		The focus of this two-week exercise will be to practice day and night operations in a multi domain environment, against a robust airborne and ground and sea based threat. This is a great opportunity for valuable integration and interoperability between NATO nations and Partnership for Peace members, and to share lessons learned.
voanews.com 01.05.2021	USA: US Formally Begins Afghanistan Troop Pullout	The U.S. and NATO formally began withdrawing their last troops from Afghanistan Saturday 01.05.2021, according to White House and military officials, bringing America's longest war closer to an end. There are between 2,500-3,500 U.S. troops and about 7,000 NATO troops remaining in Afghanistan, the last of whom will leave by the end of the summer.
voanews.com 30.04.2021	USA: Next Major War Will Be 'Very Different,' US Defense Secretary Says	The United States needs to prepare for a potential future conflict bearing little resemblance to "the old wars" that have long consumed the Pentagon, Defense Secretary Lloyd Austin said Friday in his first significant policy speech. Austin called for harnessing technological advances and better integrating military operations globally to "understand faster, decide faster and act faster." "The way we fight the next major war is going to look very different from the way we fought the last ones," Austin said during a trip to the Hawaii-based U.S. Pacific Command.
scmp.com 29.04.2021	CHN/USA: US has ramped up Recce in Chinese-claimed waters, says Beijing	On the day that Biden targeted Beijing in his first speech to a joint session of Congress, Chinese defence ministry spokesman Wu Qian said operations had increased by more than 20 per cent for US warships and 40 per cent for planes in and around waters claimed by China, compared with the same period last year under Donald Trump's administration.
israeldefense.co.il 26.04.2021	IRN: Iran has missile with 5,000 km range, Israel's ambassador to U.N. tells Security Council	An Iranian ballistic missile based on the Zuljanah satellite launch vehicle could carry a one-ton warhead for up to 5,000 km and strike any target on the European continent, Israel's ambassador to the U.N. wrote in a letter to the Security Council. A missile with a range of 5,000 km would enable Iran to attack any country in Europe, including Iceland. The letter said that such capabilities could turn the ballistic missile into the most powerful weapon in the Iranian arsenal because of its range. The letter of the Israeli ambassador to the U.N. said that mobile launchers make prelaunch detection more complex and are typically used for launching surface-to-surface ballistic missiles.  Currently, Iran's Khorramshahr missile has a range of 3,000km with a 750kg warhead. The Janes website reported that the Zuljanah satellite launch vehicle, unveiled on February 1, 2020, was described as being capable of putting a 220kg payload into orbit 500km above the earth.

bundeswehr.de 23.04.2021	DEU: Einmal volltanken bitte: Was unsere Jets wo tanken	Die fliegenden Tankstellen der Luftwaffe kennt fast jeder. Spektakuläre Bilder von A400M oder A310 MRTT Multi Role Tanker Transport, an die Eurofighter oder Tornados andocken, um in der Luft nachzutanken. Doch woher bekommen die aktuell 392 Luftfahrzeuge der Luftwaffe in Deutschland am Boden ihren Kraftstoff?  <i>(Die interessante Antwort auf diese Frage abrufbar unter: <a href="https://www.bundeswehr.de/de/organisation/luftwaffe/aktuelles/einmal-volltanken-bitte-was-unsere-jets-wo-tanken-5060220">https://www.bundeswehr.de/de/organisation/luftwaffe/aktuelles/einmal-volltanken-bitte-was-unsere-jets-wo-tanken-5060220</a>)</i>
		<b>Analysen, Studien, Reports, Fact Sheets, Infographics, Podcast und Videos</b>
boeing.com 05.2021	USAF: F-15EX	Kurzinformation über F-15EX abrufbar unter: <a href="http://www.boeing.com/defense/f-15ex/">http://www.boeing.com/defense/f-15ex/</a>
news.usni.org 03.05.2021	USN: USNI News Fleet and Marine Tracker: May 03, 2021	These are the approximate positions of the U.S. Navy's deployed carrier strike groups and amphibious ready groups throughout the world as of May 3, 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.  <i>(Infographic abrufbar unter: <a href="https://news.usni.org/2021/05/03/usni-news-fleet-and-marine-tracker-may-3-2021">https://news.usni.org/2021/05/03/usni-news-fleet-and-marine-tracker-may-3-2021</a>)</i>
crsreports.congress.gov 26.04.2021	Report to Congress on Hypersonic Weapons	The United States has actively pursued the development of hypersonic weapons—maneuvering weapons that fly at speeds of at least Mach 5—as a part of its conventional prompt global strike program since the early 2000s. In recent years, the United States has focused such efforts on developing hypersonic glide vehicles, which are launched from a rocket before gliding to a target, and hypersonic cruise missiles, which are powered by high-speed, air-breathing engines during flight.  <i>(Vollständiger Report abrufbar unter: <a href="https://crsreports.congress.gov/product/pdf/R/R45811">https://crsreports.congress.gov/product/pdf/R/R45811</a>)</i>
sipri.org 25.04.2021	SIPRI: World military spending rises to almost \$2 trillion in 2020	Total global military expenditure rose to \$1981 billion last year, an increase of 2.6 per cent in real terms from 2019, according to new data published today by the Stockholm International Peace Research Institute (SIPRI). The five biggest spenders in 2020, which together accounted for 62 per cent of global military expenditure,

		<p>were the United States, China, India, Russia and the United Kingdom. Military spending by China grew for the 26th consecutive year.</p> <p><i>(SIPRI Factsheet TRENDS IN WORLD MILITARY EXPENDITURE, 2020 abrufbar unter: <a href="https://www.sipri.org/sites/default/files/2021-04/fs_2104_milex_0.pdf">https://www.sipri.org/sites/default/files/2021-04/fs_2104_milex_0.pdf</a>)</i></p>
scmp.com 24.04.2021	USA/TWN/CHN: How next-generation tech could allow US to stop Taiwan invasion	<p>US military planners have identified the advanced equipment they believe they need to stop mainland China occupying the island following a war game. Analysts say up to 80 per cent of America's naval and air power may be needed to secure victory, which could still come at a heavy cost.</p> <p><i>(Vollständiger Beitrag abrufbar unter: <a href="https://www.scmp.com/news/china/military/article/3130848/how-next-generation-technology-could-allow-us-fight-mainland">https://www.scmp.com/news/china/military/article/3130848/how-next-generation-technology-could-allow-us-fight-mainland</a>)</i></p>
airforcemag.com 22.04.2021	USAF: Releases New Airpower Doctrine	<p>The Air Force released a new doctrine that outlines the basic tenants of airpower, how and why the service fights, and reiterates the Air Force core values of "integrity first, service before self, and excellence in all we do." The updated document, referred to as Air Force Doctrine Publication 1, or AFDP-1, distills two volumes of airpower doctrine (Volume 1 and Volume 2) down to 20 pages. It highlights the critical role of joint all-domain operations, looks to empower Airmen to challenge the status quo by rapidly putting innovative new ideas into action, and makes the Air Force's new Agile Combat Employment strategy a foundational operating concept.</p> <p><i>(Management summary «Air Force Doctrine Publication 1» (AFDP-1) "The Air Force" abrufbar unter: <a href="https://www.airforcemag.com/app/uploads/2021/04/AFDP-1-1.pdf">https://www.airforcemag.com/app/uploads/2021/04/AFDP-1-1.pdf</a>)</i></p> <p><i>("Volume 1 – Basic Doctrine" abrufbar unter <a href="https://www.airforcemag.com/app/uploads/2021/04/Volume-1-Basic-Doctrine.pdf">https://www.airforcemag.com/app/uploads/2021/04/Volume-1-Basic-Doctrine.pdf</a>)</i></p> <p><i>("Volume 2 – Leadership" abrufbar unter: <a href="https://www.airforcemag.com/app/uploads/2021/04/Volume-2-Leadership.pdf">https://www.airforcemag.com/app/uploads/2021/04/Volume-2-Leadership.pdf</a>)</i></p>
mitchellaerospace-power.org 22.04.2021	USAF: Understanding the Long-Range Strike Debate	<p>There is broad consensus on the need to increase the U.S. military's long-range strike capacity. There is also significant debate over which investments would result in the greatest return for America's warfighters. This</p>

		<p>policy paper compares the ranges, costs, target suitability, and other attributes of long-range surface-launched missiles with precision-guided weapons that can be delivered at scale by strike aircraft in peer conflicts.</p> <p><i>(Vollständiger Report abrufbar unter:</i>  <a href="https://a2dd917a-65ab-41f1-ab11-5f1897e16299.usrfiles.com/ugd/a2dd91_584d2a721b0f44bab0bf7d25986ea40d.pdf">https://a2dd917a-65ab-41f1-ab11-5f1897e16299.usrfiles.com/ugd/a2dd91_584d2a721b0f44bab0bf7d25986ea40d.pdf</a><i>)</i></p>
<p>foi.se 21.04.2021</p>	<p>RUS: Russia's Military R&amp;D Infrastructure</p>	<p>Military R&amp;D is a key factor in the long-term development of Russia's armed forces. Russia's defence-related R&amp;D infrastructure consists of approximately 600 organisations. This report identifies the various types of R&amp;D organisations, categorises their distribution across branches and maps their geographical concentration. The report also discusses several new initiatives underway, such as the Advanced Research Foundation – Russia's equivalent to DARPA – and the military technopolis Era. They are both part of Russia's ambition to achieve a breakthrough in new critical military technology areas, in particular artificial intelligence and robotics and autonomous systems.</p> <p><i>(Vollständige Analyse abrufbar unter:</i>  <a href="file:///C:/Users/Standard/Downloads/FOIR5124%20(2).pdf">file:///C:/Users/Standard/Downloads/FOIR5124%20(2).pdf</a><i>)</i></p>

<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><b>zu orientieren.</b></p>
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	Dafür werden offene staatliche und Firmen-Quellen sowie die Tages- und Fachpresse ausgewertet und in primär englischer Sprache thematisch und chronologisch zusammengeführt.
Ausgewählt und bearbeitet von MILITÄRPOLITISCHE NACHRICHTEN SCHWEIZ (MNS) Konrad Alder Hermann Hiltbrunner-Weg 1 Tel. 044 926 39 36 <a href="mailto:konrad.alder@bluewin.ch">konrad.alder@bluewin.ch</a>	<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>
Beilagen im Anhang zum Versandmail NACHBRENNER 2021-09	° Airbus Newsletter ALLEGRA 2021-05
Verbunden in einem Informationsnetzwerk mit	<ul style="list-style-type: none"> <li>° Peter Bosshard – Forum Flugplatz Dübendorf – <a href="http://www.forum-flugplatz.ch">www.forum-flugplatz.ch</a></li> <li>° Thomas Bosshard – Pro Schweizer Luftwaffe – <a href="mailto:thomasbosshard@bluewin.ch">thomasbosshard@bluewin.ch</a></li> <li>° Dr. Peter Forster – Das Bulletin Nr. 1 – <a href="https://bulletin-1.ch/">https://bulletin-1.ch/</a></li> <li>° H.U. Helfer – Informationsgruppe Pro Kampfflugzeuge – <a href="mailto:helfer@presdok.ch">helfer@presdok.ch</a></li> <li>° Daniel Hildinger – Verein Schweizer Armeefreunde - <a href="http://www.chaf.ch">www.chaf.ch</a></li> <li>° Christoph Vollenweider – Gruppe Luftverteidigung – <a href="http://www.lilienberg.ch">www.lilienberg.ch</a></li> </ul>
Neuabonnement NACHBRENNER	<p>Für eine regelmässige, kostenlose Zustellung des NACHBRENNER übermittelt man seine Mailadresse an <a href="mailto:konrad.alder@bluewin.ch">konrad.alder@bluewin.ch</a>.</p> <p>Auf die gleiche Art erfolgt die Annulation des Abonnements.</p>