

August 31, 2022

SYLLOGE ON CHINA

Focus: Nuclear, Space, Missiles and other Security Issues

An Initiative by Indian Pugwash Society and Centre for Nuclear Issues and Arms Control (MP - IDSA)



INDIAN PUGWASH SOCIETY

China's top space contractor CASC reveals new launch vehicle able to send Chinese to Moon by around 2030

Deng Xiaoci

Global Times, August 21, 2022

China's new-generation manned rocket, which is currently under development, will possess the capability to send taikonauts to the Moon by around 2030, Global Times has learned from China's state-owned space giant China Aerospace Science and Technology Corporation (CASC). A CASC spokesperson made the remarks to the media after the Long March 2D carrier rocket smoothly sent the remote sensing Yaogan-35 04 group of satellites, which saw the country's Long March rocket series breaking its own record with 103 consecutive successful space launch missions. According to the CASC spokesperson, the country's super heavy-lift launch vehicle, which is also under development, will receive further strengthening to become capable of sending payloads of 50 tons to the Earth-Moon transfer orbit on completion, in order to support future lunar activity.

<https://www.globaltimes.cn/page/202208/1273481.shtml>

Japan's plan to amass 1,000 long-range missiles against China 'has nothing to do with situation across Taiwan Straits, exposes Japan's peace-breaking ambitions'

Guo Yuandan

Global Times, August 21, 2022

Japan is considering amassing an arsenal of more than 1,000 long-range missiles capable of reaching foreign soil in a move to close the "missile gap" with China, Japanese media reported. An observer said such a decision to mass-produce such missiles, if confirmed, marks Japan's path to flexing its military muscles and a start for Tokyo to break the pacifist constitution of developing more weapons that the constitution forbids, and the country's further walking away from the pacifism after its defeat in World War II. Japan is considering amassing an arsenal of more than 1,000 of its planned long-range missiles, the Yomiuri newspaper reported, citing unidentified people with knowledge of the plans. The projectiles will be deployed mainly across the Nansei Islands and Kyushu, according to the article. By doing so, Japan is seeking to close the "missile gap" with China, Bloomberg reported.

<https://www.globaltimes.cn/page/202208/1273521.shtml>

PLA adopts nuclear deterrence to stop foreign intervention on Taiwan: analysts

Minnie Chan

South China Morning Post, August 21, 2022

The People's Liberation Army (PLA) has adopted nuclear deterrence to try to stop the United States and Japan from directly intervening in a possible clash over Taiwan, but would exercise caution to avoid full-

blown conflict, according to analysts. Days before Beijing kicked off unprecedented war games near Taiwan in the wake of US House Speaker Nancy Pelosi's Taipei tour earlier this month, video footage of two vehicles carrying the two-stage liquid-fuel Dongfeng 5B intercontinental ballistic missile (ICBM) circulated on mainland social media platforms Weibo and WeChat. Videos showed other Dongfeng nuclear-capable missiles – including the road-mobile DF-27, DF-16 and DF-15B – moving through city streets.

<https://www.scmp.com/news/china/military/article/3189597/pla-adopts-nuclear-deterrence-stop-foreign-intervention-taiwan>

China begins mass production of its Hualong-1 nuclear power units

Zheng Yibing

CGTN, August 21, 2022

China's self-developed third-generation nuclear power unit Hualong-1 has entered the quantity production phase after the unit's first commercial operation in January last year. Two new Hualong-1 units are under construction at the Changjiang Nuclear Power Plant in China's southern island province of Hainan where some 30 percent of energy is created by nuclear power. More than 9,000 workers and 1,000 management staff are working at the construction site, according to the constructors. "We hope the new units at the Changjiang power plant can get connected to the grid as soon as possible," said Zhang Daqian, a senior engineer at the China Nuclear Industry 22nd Construction Company.

<https://news.cgtn.com/news/2022-08-21/China-begins-mass-production-of-its-Hualong-1-nuclear-power-units-1cGxVqQKpIS/index.html>

China's space tracking ship Yuanwang-3 sails for maritime tracking, monitoring tasks

Fan Wei

Global Times, August 22, 2022

On August 22, China's space tracking ship Yuanwang-3 left a dock, bounding for the mission area to carry out maritime tracking and monitoring tasks. Since the beginning of the year, the ship has sailed for more than 70 days and completed three sea tracking and monitoring missions including the launch of Shenzhou-14 manned mission, making it the first single ship mission in the history of Yuanwang series to break 100. Before the departure, the scientific and technical personnel have conducted the comprehensive overhaul and test of the onboard tracking and monitoring equipment, and carried out the practical operation drills. "On this voyage, we will be faced with practical tests such as long sailing time, great changes in time zones, aging equipment performance and variable weather conditions in the targeted area," said Sun Jiangping, director of Yuanwang-3's planning department.

<https://www.globaltimes.cn/page/202208/1273549.shtml>

China lodges stern demarche over US politicians' latest Taiwan visit; 'nation to steadily advance reunification process' amid frequent provocations

Yang Sheng and Zhang Changyue

Global Times, August 22, 2022

Politicians and officials from the US, as well as some other Western countries, keep making or planning more visits to the island of Taiwan to further provoke China, as a delegation including Eric Holcomb, the governor of the US state of Indiana, arrived in Taiwan for "trade talks," for which China has made serious demarches, as such provocation caused regional tensions to continue intensifying rather than easing, bringing increasing concerns among the international community. Chinese analysts said that the visits to Taiwan, as well as US arms sales to the island, sent very wrong signals that encourage the secessionist Democratic Progressive Party (DPP) to go against reunification with force and seek foreign support, so the possibility of peaceful reunification is seriously shrinking, which makes the People's Liberation Army's (PLA) routine training and drills for a military solution around the island increasingly necessary.

<https://www.globaltimes.cn/page/202208/1273596.shtml>

China is building world's first commercial land-based SMR

Zheng Yibing

CGTN, August 23, 2022

China is building the "Linglong-1," a small modular reactor (SMR) in the country's southern island province of Hainan. It's the world's first of this type of reactor to be approved by the International Atomic Energy Agency (IAEA), and it intends to serve the region's diverse power needs. "We believe that there will be a trend of nuclear energy because it can be close to the load centers and based on customization," said Qu Yong, deputy chief engineer at Hainan Nuclear Power Co., Ltd.

<https://news.cgtn.com/news/2022-08-22/China-is-building-world-s-first-commercial-land-based-SMR-1c18GcIqAuY/index.html>

Respect for sovereignty, territorial integrity foundation of common security - Chinese envoy

CGTN, August 23, 2022

A Chinese envoy said that respect for the sovereignty and territorial integrity of all states is the foundation of common security. The important principle of respect for national sovereignty and territorial integrity as set out in the UN Charter is the bedrock of contemporary international law and international relations, said Zhang Jun, China's permanent representative to the United Nations. "If this principle is ignored and

abandoned, the whole system of international law will be shaken to its roots. The world will return to the law of the jungle and common security will be totally out of the question," he warned.

<https://news.cgtn.com/news/2022-08-23/Chinese-envoy-calls-for-respect-for-sovereignty-territorial-integrity-1cJxFvGVdte/index.html>

No country can put up its own security fence at others' doorstep: Chinese ambassador to UN

Global Times, August 23, 2022

Respect for national sovereignty and territorial integrity, as set out as the important principle in the UN Charter, is the bedrock of contemporary international law and international relations, and a golden rule of state-to-state interactions, Zhang Jun, China's permanent representative to the United Nation (UN) said during a Security Council meeting. Under the initiative of China as rotating presidency of the UN Security Council for August, the meeting on "Promote common security through dialogue and cooperation" was held, according to the official website of the Permanent Mission of China to the UN. Respect for national sovereignty and territorial integrity, as set out as the important principle in the UN Charter, is the bedrock of contemporary international law and international relations. If this principle is ignored and abandoned, the whole system of international law will be shaken to its roots, the world will return to the law of the jungle, and common security will be totally out of the question, Zhang said.

<https://www.globaltimes.cn/page/202208/1273646.shtml>

China restarts mass production of Type 052D destroyers, media reports say

Liu Xuanzun

Global Times, August 23, 2022

With five Type 052D destroyers allegedly spotted under construction at the Dalian Shipyard, China is said to have restarted the mass production of this type of warship, with foreign media hyping that the fast pace of China's shipbuilding makes the Chinese People's Liberation Army (PLA) Navy "the largest navy in the world," a claim that Chinese analysts slammed as being the rhetoric of the "China threat" theory. An unverified picture recently circulating on social media showed what seemed to be five Type 052D destroyers at various stages of completion at the Dalian Shipyard in Northeast China's Liaoning Province, Paris-based media outlet Naval News reported. In addition to these five, at least one more is being built at the Jiangnan Changxing Shipyard in Shanghai, and they will soon join the 25 warships of the same class currently in service with the PLA Navy, Naval News said, citing observers. China has not officially announced its warship construction plan.

<https://www.globaltimes.cn/page/202208/1273665.shtml>

China's heat-seeking radar with 300km range boosts anti-stealth tech, say defence scientists

Stephen Chen

South China Morning Post, August 23, 2022

Defence industry engineers in southwestern China have built a small infrared search-and-track system that can pick up the heat signature of a fast-moving aircraft from an unusually long distance, the team says. The medium-wave infrared system has detected and tracked civil aircraft from a distance of 285km (177 miles), according to a paper published in the peer-reviewed Chinese journal *Infrared and Laser Engineering*. "The outline of the target, the rotor, the tail and the number of engines can be clearly identified from the infrared spectrum image," said the team led by Liu Zhihui, an electrooptics engineer with defence contractor Sichuan Jiuzhou Electric Group Company.

<https://www.scmp.com/news/china/science/article/3189835/chinas-heat-seeking-radar-300km-range-boosts-anti-stealth-tech>

Remarks by Ambassador Geng Shuang at the UN Security Council Briefing on the Situation Related to Zaporizhzhia Power Plant

CGTN, August 24, 2022

There is no room for trial and error when it comes to the safety and security of nuclear facilities," said Chinese Ambassador Geng Shuang at a United Nations Security Council Briefing on the situation. Geng adds, China supports the IAEA and encourages they conduct a visit to Zaporizhzhia nuclear power plant as soon as possible. Read Ambassador Geng Shuang's full remarks here: "I thank Under-Secretary-General DiCarlo for her briefing. When the Council last time considered the issue of the safety of Ukraine's nuclear facilities, members expressed concerns about the safety of the Zaporizhzhia nuclear power plant..."

<https://newsus.cgtn.com/news/2022-08-24/Remarks-by-Ambassador-Geng-Shuang-at-the-UN-Security-Council-Briefing--1cKpTXYNEdy/index.html>

US, Australia discuss possibility of B-21 bomber deal, 'posing serious threats to China'

Liu Xuanzun

Global Times, August 24, 2022

Following the AUKUS nuclear-powered submarine deal, a senior US official reportedly said recently that the US would consider providing Australia with B-21 bombers, the in-development successor to the B-2 stealth bomber that experts said would enable Australia to launch long-range strikes against China, thus posing serious threats to China. US Air Force Secretary Frank Kendall made the remark at a media briefing

after meeting with newly minted Royal Australian Air Force chief Air Marshal Robert Chipman on August 22 in Canberra, The Strategist, a website affiliated with the Australian Strategic Policy Institute, reported. Kendall again hyped the "China threat" theory, claiming the US and its allies were "concerned about Chinese behavior" in the South China Sea as well as China's military modernization program. "We are in what I consider to be a race for military technological superiority with the Chinese," Kendall said.

<https://www.globaltimes.cn/page/202208/1273753.shtml>

CSIS' war games, designed for cognitive warfare against China, will have little influence

Yang Yucai

Global Times, August 24, 2022

US politicians' provocative visits to Taiwan island, especially the one led by House Speaker Nancy Pelosi, have triggered a new round of escalation of tensions in the Taiwan Straits. Western media is hyping the possibility of a conflict accidentally being sparked. Against this backdrop, not only the US military, but also private think tanks have been focusing on research and predictions on regional military situations and war scenarios. Recently, the Center for Strategic and International Studies (CSIS), a US think tank, has conducted scenario planning for a possible war in the Taiwan Straits. In terms of such war games, unlike those carried out by officials and military, which tries to provide sufficient conditions to pursue secret simulations that are close to reality, the public simulations of private think tanks have a clear purpose: to express their established academic views and find reasons through military simulation, they always need to limit conditions, manipulate the simulation process and come to the conclusions they already held.

<https://www.globaltimes.cn/page/202208/1273757.shtml>

Chinese defense chief delivers video speech at SCO defense ministers meeting

China Military Online, August 24, 2022

The 19th meeting of the Council of Defense Ministers of the Member States of the Shanghai Cooperation Organization (SCO) is held in Tashkent, Uzbekistan, on August 24, 2022. Chinese State Councilor and Defense Minister Wei Fenghe attended and addressed the meeting via video link. Wei said that the human society is facing multiple crises and severe challenges rarely seen in history. The more in the times of difficulties and crisis, the more we must work together to overcome difficulties. The Global Security Initiative (GSI) proposed by the Chinese President Xi Jinping has provided a right solution to international security challenges. China is willing to work with other countries to uphold international fairness, justice and world peace and tranquility.

http://eng.chinamil.com.cn/view/2022-08/24/content_10180255.htm

How hypersonic bullets could threaten the human body: a Chinese military team investigates

Stephen Chen

South China Morning Post, August 25, 2022

Hypersonic bullets leave large craterlike wounds in flesh, but do not penetrate the skin and flesh as a solid substance like traditional shots, according to a live animal study by military researchers in China. The researchers from an army medical centre in the southwestern municipality of Chongqing fired high-speed 5mm steel bullets at sedated young male pigs to assess the potential impact of hypersonic weapons on the human body. Hypersonic weapons are an intense area of military research, with Russian defence contractor Lobaev Arms saying in 2019 that it was developing a hypersonic rifle that could accelerate a bullet to nearly Mach 6.

<https://www.scmp.com/news/china/science/article/3190043/how-hypersonic-bullets-could-threaten-human-body-chinese>

China and South Korea drift apart 30 years after normalization

Tsukasa Hadano and Junnosuke Kobara

Nikkei Asia, August 25, 2022

When China and South Korea formally established diplomatic relations in 1992, their deepening ties symbolized the new post-Soviet era in East Asia. Three decades later, the two economic powers appear to be growing apart. Wang Yi, China's state councilor and foreign minister, met with South Korean Foreign Minister Park Jin on Aug. 9 in Qingdao. During their discussion, Wang referenced a saying written by Confucius: "One should stand firmly at age 30." In other words, South Korea should mark the 30th anniversary of normalizing relations with China by engaging in diplomacy that is independent of its close ally, the U.S.

<https://asia.nikkei.com/Politics/International-relations/China-and-South-Korea-drift-apart-30-years-after-normalization>

PLA aircraft carrier Shandong holds drills in South China Sea in full combat group

Liu Xuanzun

Global Times, August 25, 2022

The Shandong, the Chinese People's Liberation Army (PLA) Navy's second aircraft carrier and the first domestically built, recently held comprehensive drills in the South China Sea in a group consisting of full combat elements, which analysts said showed the carrier is becoming ready for far sea operations. The

aircraft carrier Shandong conducted realistic combat-oriented exercises in an undisclosed area in the South China Sea in early autumn to comprehensively test the force's combat capabilities, the PLA South Sea Fleet said in a press release. During the drills, the Shandong hosted takeoff and landing operations of J-15 carrier-based fighter jets, and practiced replenishment-at-sea operations, according to the press release.

<https://www.globaltimes.cn/page/202208/1273881.shtml>

China urges U.S., Britain, Australia to reverse decisions on nuclear submarine cooperation

Xinhua, August 25, 2022

A Chinese defense spokesperson urged the United States, Britain and Australia to fulfill their obligations concerning nuclear non-proliferation and revoke their decisions on nuclear submarine cooperation. Nuclear submarine cooperation among these three countries poses severe nuclear proliferation risks, challenges the international framework for nuclear non-proliferation, escalates the arms race and undermines regional peace and stability, said Tan Kefei, spokesperson for the Ministry of National Defense, at a press conference. The United States and Britain would openly violate the purposes and principles of the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) if they transfer weapons-grade nuclear materials to non-nuclear-weapon states, Tan said. Tan called on the international community to jointly defend the NPT-based international nuclear non-proliferation regime.

<https://english.news.cn/20220825/4d546af9b82e4bb785a2d2cb2a0ebfdc/c.html>

Plasma detector, a watcher on China's space station

Xinhua, August 25, 2022

A plasma in-situ imaging detector will be installed on the Wentian lab module's extravehicular platform to measure various plasma parameters in the orbit of China's space station, said the China Manned Space Agency. Wentian, the first lab module of China's space station, was sent to space on July 24 and has operated in orbit for nearly a month. In addition to the scientific experiment cabinets, Wentian also carries two extravehicular detectors. They include the plasma in-situ imaging detector and an energy particle detector, to be installed on the extravehicular platform as planned.

<https://english.news.cn/20220825/15f6e344c78242a5ace3a53ced45ea0a/c.html>

Int'l counter-terrorism forum "Great Wall-2022" to be held in Beijing

China Military Online, August 25, 2022

"Chinese People's Armed Police Force (PAP) is to host the International Forum on Counter-terrorism 'Great Wall-2022' in Beijing from August 30 to 31," said Senior Colonel Tan Kefei, a spokesperson for China's

Ministry of National Defense, at a regular press conference. The forum, with the theme of counter-terrorism, has two topics, namely, “research on international cooperation against terrorism by military police forces” and “research on counter-terrorism operations via unmanned and intelligent weapon platforms in cities, mountains and other environments”. According to the spokesperson, the forum is to be held both online and offline, with Chinese personnel and military attachés (or representatives of the military police forces) in China attending the event offline, and overseas personnel online.

http://eng.chinamil.com.cn/view/2022-08/25/content_10180474.htm

China opposes any third party meddling in China-India border issue: Defense Spokesperson

China Military Online, August 25, 2022

"We firmly oppose any third party to meddle in the China-India border issue in any form," said Senior Colonel Tan Kefei, a spokesperson for China's Ministry of National Defense (MND) at a regular press conference in Beijing when being asked about his comments on the ongoing and future US-India joint military exercises near the China-India border. The spokesperson made it clear that China has always stressed that military cooperation of relevant countries, especially on exercises and training activities, should not be targeted at any third party, but rather serve to help maintain regional peace and stability. As the spokesperson said, the China-India border issue is a matter between the two countries. Both sides have maintained effective communications at all levels and agreed to properly handle the situation through bilateral dialogues. In light of the relevant agreements signed by China and India in 1993 and 1996, neither side is allowed to conduct military exercise against the other in areas near the Line of Actual Control, Tan stressed.

http://eng.chinamil.com.cn/view/2022-08/25/content_10180490.htm

Chinese scientists create a ‘plasma shower’ to improve stealth bomber performance

Stephen Chen

South China Morning Post, August 26, 2022

Chinese researchers say they have developed a plasma device that could significantly improve the aerodynamic performance of stealth bombers. The device is a strip of thin membrane covering the front area of a flying wing aircraft. When the speed of air flowing on top of the wings slows to a point that could lead to a stall, the membrane senses danger in advance and ionises air molecules with high-voltage electricity, generating a shower of plasma – or electrically charged particles – over the wings.

<https://www.scmp.com/news/china/science/article/3190239/chinese-scientists-create-plasma-shower-improve-stealth-bomber>

China's sub-orbital carrier makes 1st successful repeated-use flight, a great step forward in reusable space transportation technologies

Leng Shumei

Global Times, August 26, 2022

China's reusable sub-orbital space carrier made its first successful repeated-use experiment flight, the developer China Aerospace Science and Technology Corp (CASC) announced. This is a great step forward of China's development in reusable space transportation technologies, the corporation said. The vehicle, a lifting-body sub-orbital carrier, was reused and launched vertically in the Jiuquan Satellite Launch Center in Northwest China's Gansu Province after receiving inspection and maintenance, the China Central Television reported citing an announcement of the CASC. It landed stably at an airport in Alxa Right Banner in North China's Inner Mongolia Autonomous Region after finishing a flight in the sub-orbit as planned, according to the announcement.

<https://www.globaltimes.cn/page/202208/1273944.shtml>

China space science assembly opens in Taiyuan

Xinhua, August 26, 2022

The 2nd China Space Science Assembly kicked off in the city of Taiyuan, north China's Shanxi Province, attracting nearly 500 academicians and experts from over 220 research institutes, universities and enterprises. Chinese researchers Liu Liang and Sun Zezhou were awarded the Science Award and the Technology Award of the Chinese Society of Space Research, respectively, for their contribution to space science at the opening ceremony of the four-day event. Liu made pioneering contributions in the fields of space cold atomic clock and space ultra-cold atomic physics. Sun achieved innovative research results in the overall design of the country's lunar and Mars rovers and in the fields of tracking, telemetry and control, and communication.

<https://english.news.cn/20220826/7c55897a6f8e4416a95ab4227802de0e/c.html>

New PLA refueling aircraft to feature at Changchun public event

China Military Online, August 26, 2022

The People's Liberation Army Air Force will display its latest addition — the YY-20 large aerial refueling aircraft — during a public event starting in Changchun, capital of Jilin province. Displaying a photo showing a YY-20 flying with a J-20 stealth fighter jet and a J-16 strike fighter, Senior Colonel Shen Jinke, spokesman for the PLA Air Force, told a news conference in Changchun that the event will be the first opportunity for the public to get a close look at the YY-20, which was declassified at the end of July. The new tanker is a variant of China's Y-20 strategic transport plane. Like the Y-20, the new plane was made by State-owned defense contractor, the Aviation Industry Corp of China.

http://eng.chinamil.com.cn/view/2022-08/26/content_10180641.htm

China completes test of reusable, sub-orbital vehicle

China Military Online, August 26, 2022

China successfully completed the test of a self-developed, reusable, sub-orbital vehicle. The vehicle was launched "vertically" from the Jiuquan Satellite Launch Center in the northwest of the country, according to the China Academy of Launch Vehicle Technology, the developer of the vehicle. The vehicle was lifted off after inspection and maintenance. It was its second launch. The vehicle then completed the sub-orbital flight in accordance with the set procedure and landed "stably and horizontally" on the Alxa Right Banner airport. It marks China's first successful reusable flight of a sub-orbital vehicle.

http://eng.chinamil.com.cn/view/2022-08/26/content_10181133.htm

PLA Eastern Theater Command organizes joint security patrol and combat drills around Taiwan Island

China Military Online, August 26, 2022

The Eastern Theater Command of the Chinese People's Liberation Army (PLA) has in the past few days carried out joint combat-readiness security patrols and combat training exercises involving troops of multiple services and arms in the waters and airspace around the Taiwan Island, according to the WeChat official account of the Eastern Theater Command on August 26. This is a normalized military operation organized according to the changing situation in the Taiwan Straits. The Eastern Theater Command troops will keep training for combat readiness to resolutely safeguard China's national sovereignty and security and peace and stability in the Taiwan Straits, said the WeChat official account of the theater command.

http://eng.chinamil.com.cn/view/2022-08/26/content_10180734.htm

PLA Eastern Theater Command spokesperson remarks on US warships' transit through Taiwan Strait

China Military Online, August 28, 2022

The USS Antietam and the USS Chancellorsville, two US guided-missile cruisers, sailed through the Taiwan Strait on August 28 and hyped it up publicly. The Eastern Theater Command of the Chinese People's Liberation Army (PLA) conducted security tracking and monitoring of the US warships' passage in the whole course, and had all movements of the two US warships under control, said Senior Colonel Shi Yi, spokesperson for the PLA Eastern Theater Command, in a written statement released. The troops of the PLA Eastern Theatre Command always stay on high alert and get ready to thwart any provocation, stressed the spokesperson in the end of the statement.

http://eng.chinamil.com.cn/view/2022-08/28/content_10180950.htm

Chinese commercial satellite firms attract renewed financing, as huge market potential of over 100b yuan gains momentum

Global Times, August 29, 2022

China's aerospace companies took the leap to make great progress in satellite launch, with the country's reusable sub-orbital space carrier made its first successful repeated-use experiment flight, which experts said has boosted the morale of private aerospace firms as the huge market potential of over 100 billion yuan (\$14.45 billion) in the country's commercial aerospace sector gains pace. As China's commercial space sector has entered a fast- development track after several years of high-speed development, domestic investors are shifting their focus to the commercial satellite sector, with start-ups recently attracting more financing along with their robust growth.

<https://www.globaltimes.cn/page/202208/1274132.shtml>

China upholds NPT despite recent Review Conference results

CGTN, August 29, 2022

The Chinese Foreign Ministry said on Monday that China will keep defending the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) despite the recent disappointment of the NPT review conference results. A spokesperson Zhao Lijian made the remarks in a regular press conference in response to China's take on the results of the 10th Review Conference of the Parties to the NPT. "China showed deep regret that the conference was not able to reach consensus, but again it proved that treaty mechanism isn't running in vacuum", said Zhao, adding that the conference wasn't a failure though the final document wasn't agreed upon.

<https://news.cgtn.com/news/2022-08-29/China-upholds-NPT-despite-recent-Review-Conference-results-1cTxXH6qdyw/index.html>

Japan should learn from history, win intl trust, Chinese FM says amid Tokyo's ambition in hypersonic weapons

Global Times, August 30, 2022

Japan should learn from history and be cautious in words and deeds concerning military and security issues, so that it can win the trust of its neighboring countries and the international society, a Chinese Foreign Ministry spokesperson said after Japanese defense chief Yasukazu Hamada stated that Japan needs to improve its missile interceptor and counterattack capabilities. Hamada made the remarks during a Monday interview per discussions on hypersonic weapons. Some observers believed the declaration is targeted toward China, Russia and North Korea. Chinese Foreign Ministry spokesperson Zhao Lijian said at routine press briefing that Japan has gone further and further on the road of military expansion in recent years,

including greatly increasing military budgets, vigorously developing anti-missile, outer space, hypersonic weapons and other military technologies, strengthening US-Japan military cooperation, and seeking to develop its so-called counterattack capability. Some people even advocated for "nuclear sharing" with the US, allowing the deployment of American nuclear weapons to Japanese territory.

<https://www.globaltimes.cn/page/202208/1274214.shtml>

Chinese team claims ‘highly reliable’ communications during hypersonic flight

Stephen Chen

South China Morning Post, August 30, 2022

A team of scientists in Beijing claim they have achieved “highly reliable” ground communications during hypersonic weapon test flights. The system could allow ground control to stay in constant contact with a hypersonic vehicle as it travelled at more than 20 times the speed of sound at high altitudes, researchers from the Science and Technology on Space Physics Laboratory said. Lead scientist Li Bin and the team called it a “major breakthrough” in a paper on their findings in Chinese peer-reviewed journal Missiles and Space Vehicles on August 10.

<https://www.scmp.com/news/china/science/article/3190695/chinese-team-claims-highly-reliable-communications-during>

Chinese trade body slams US CHIPS Act, urges Chinese and US companies to work together to mitigate negative impact

Global Times, August 30, 2022

The China Council for the Promotion of International Trade (CCPIT) on Monday slammed the US CHIPS and Science Act as being opposite to the fair, open and non-discriminatory spirit predominant in the global semiconductor industry, and called for Chinese and US business communities to work together to mitigate the adverse impact of this law. US President Joe Biden signed an Executive Order to implement the semiconductor funding in the CHIPS and Science Act of 2022, which provides \$52.7 billion in government subsidies for its own semiconductor production and research. In a strongly worded comment, a CCPIT spokesperson said that while the effect of the implementation of the law is still to be seen, its impact in damaging the growth of the global chip industry and international economic and trade rules will be profound.

<https://www.globaltimes.cn/page/202208/1274173.shtml>

US' plan to sell missiles to Taiwan island after Pelosi's visit slammed as provocative, futile

Liu Xuanzun

Global Times, August 30, 2022

The US is reportedly planning to sell an arms package involving anti-ship and air-to-air missiles worth \$1.1 billion to the island of Taiwan only weeks after US House Speaker Nancy Pelosi's provocative visit to the island, a move analysts said is yet another ill-intended provocation that will only escalate tensions in the region. While the arms sale will be futile in changing the absolute superiority of the Chinese People's Liberation Army (PLA) over Taiwan's armed forces, the PLA will be well-ready to deal with them, experts said. The Biden administration plans to formally ask Congress to approve an estimated \$1.1 billion arms sale to Taiwan, US news outlet Politico reported, citing sources with direct knowledge of the package.

<https://www.globaltimes.cn/page/202208/1274194.shtml>

China's Sun-probing satellite achieves 5 historic 'firsts,' data shared globally: developer

Fan Anqi, Wan Lin and Deng Xiaoci

Global Times, August 30, 2022

China's first solar probing satellite released its observation results in Beijing, setting five "world's firsts" which are of great significance to solar exploration missions and will boost China's influence in the field of space science. Since its launch in October 2021, the satellite has collected and transmitted some 50 terabits (Tb) of observation data and 300 Tb of scientific data, all of it open for world players to share, and these observations have already been widely applied by scholars in the US, France and Germany, the Global Times learned from the project developer. The satellite, named Xihe, was launched into orbit on October 14, 2021. Weighing 510 kilograms, it operates at an altitude of 517 kilometers in a dusk-dawn Sun-synchronous orbit.

<https://www.globaltimes.cn/page/202208/1274243.shtml>

Thailand cooperates with China to pursue fusion energy

Global Times, August 31, 2022

A group of scientists and engineers from Thailand are currently conducting research and experiments related to fusion energy with their Chinese colleagues in Hefei, the capital of east China's Anhui Province. This is a part of the Thailand Tokamak 1 (TT-1) cooperation project between the two countries. A tokamak is an experimental machine in which an ultra-high temperature plasma can be created and maintained to simulate the necessary conditions for fusion reaction. "We are here to learn how to operate the tokamak

machine, which was donated to Thailand under the witness of Thai Princess Maha Chakri Sirindhorn in 2018. The machine will be disassembled and then shipped to Thailand," said Dr. Nopporn Poolyarat, head of Fusion and Plasma Division of Thailand Institute of Nuclear Technology (TINT).

<https://www.globaltimes.cn/page/202208/1274290.shtml>

Russian, Chinese navies to hold Vostok 2022 strategic drills in Sea of Japan — top brass

China Military Online, August 31, 2022

The Russian and Chinese navies will operate in the Sea of Japan in the upcoming Vostok 2022 strategic drills, Russian Deputy Defense Minister Alexander Fomin told a briefing for foreign military attaches. "The [Russian] Pacific Fleet jointly with the Navy of the People's Liberation Army of China will practice interoperability in the northern and central parts of the Sea of Japan in the Far Eastern maritime zone with the aim of assisting ground forces in the Primorye direction and defending sea lanes and areas of maritime economic activity," Fomin said. General-purpose naval forces will practice operations in the waters and in the coastline areas of the Sea of Japan and the Sea of Okhotsk, he added.

http://eng.chinamil.com.cn/view/2022-08/31/content_10181738.htm

*Sylloge on China is compiled by Mr. Niranjana C. Oak with inputs
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