



SPACE CYBERSECURITY WEEKLY WATCH

Week 21

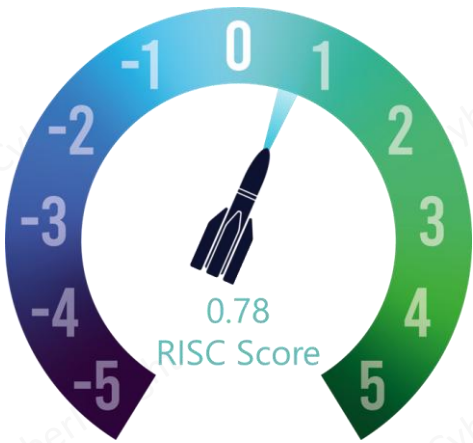
May 20 - 26, 2025

Timeframe: Weekly
of articles identified: 34
Est. time to read: 65 minutes

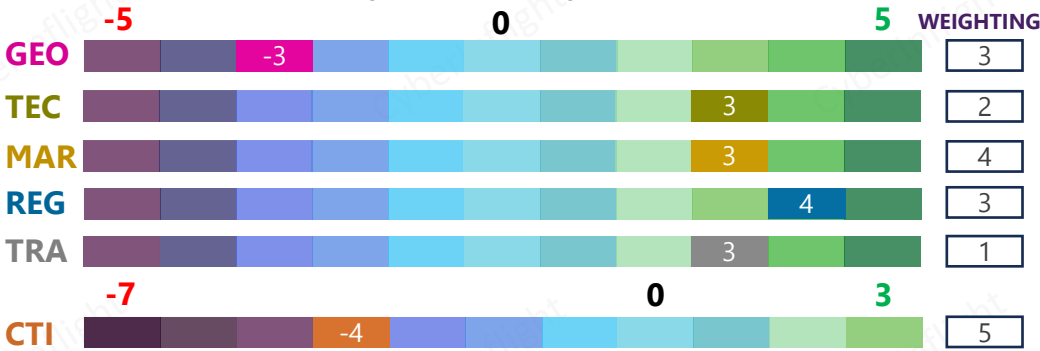
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

- GEOPOLITICS
- TECHNOLOGY
- MARKET & COMPETITION
- REGULATION
- TRAINING & EDUCATION
- THREAT INTELLIGENCE
- ★ IMPORTANT NEWS

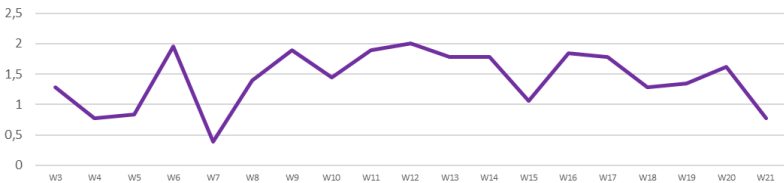
RISC Score Assessment



Overview & Resilience Index for Space Cybersecurity (RISC)



RISC Score evolution in 2025



The RISC score for this watch is 0.78, a significant decrease from last week. This difference is due to some threats and negative geopolitical news, which are nevertheless slightly balanced by strong new regulations.

CyberInflight's analyst, Matthias Popoff, was interviewed about the Russian threat landscape during CYSAT 2025 in Paris. Discover its interview! This week's geopolitics news includes the increased dependence on space-based assets for both military and civilian functions, which has turned these critical systems into a potential target for cyberattacks. NATO's deterrence capability relies on these assets, such as satellites, for secure communication, navigation, intelligence, and early warning systems. On the technological front, in a significant leap forward for India's defense technology, the country has developed a cutting-edge Satellite Navigation System (SNS) Jammer capable of blocking signals from China's BeiDou navigation system, alongside other global navigation systems like GPS, GLONASS, Galileo, and NavIC. On the threat front, the 2025 Data Threat Report by Thales results show progress in key areas of data security, but much work remains as organizations mature their data security controls. Regarding regulations, a new Hygiene Guide for Orbital Systems has been released by the CNES. It is based on recognized benchmarks and feedback from the French space ecosystem. On the market side, the Pentagon's Defense Innovation Unit (DIU) has added 13 more companies to its pool of contractors developing an ambitious multi-agency effort to create a multi-orbit, public-private satellite communications (SATCOM) network largely impervious to jamming, intending to launch a pilot in 2026. Lastly, CYSAT made its debut in Asia! Co-organised by SGInnovate and CYSEC, this groundbreaking event aims to bring together the Pacific region's space communities to address critical challenges in securing space infrastructures.

CYBERINFLIGHT'S NEWS



Le secteur spatial, caisse de résonance des tensions géopolitiques mondiales (*Trad: The space sector, a sounding board for global geopolitical tensions*)

CyberInflight's analyst, Matthias Popoff was interviewed about the Russian threat landscape during CYSAT 2025 in Paris.

#Interview #MarketAnalyst

Link: <https://www.usinenouvelle.com/article/le-secteur-spatial-caisse-de-resonance-des-tensions-geopolitiques-mondiales.N2232066>



GEOPOLITICS

How China fights in large-scale conflict operations?

As national security policy evolves, China is the power that has the most impact on the global security landscape. The Chinese government is increasingly aware of the need to develop a comprehensive strategy to address the challenges posed by the global security environment.

Link:

[https://www.usinenouvelle.com/article/le-secteur-spatial-caisse-de-resonance-des-tensions-geopolitiques-mondiales.N2232066](#)



America's reorganization of space operations within NASA: new budget cuts

As the US government reorganizes its space operations, NASA is facing significant budget cuts. This reorganization is a response to the growing competition in space and the need to streamline operations.

Link:

[https://www.usinenouvelle.com/article/le-secteur-spatial-caisse-de-resonance-des-tensions-geopolitiques-mondiales.N2232066](#)



America's GPS vulnerability threatens defense strategy

As the US government reorganizes its space operations, NASA is facing significant budget cuts. This reorganization is a response to the growing competition in space and the need to streamline operations.

Link:

[https://www.usinenouvelle.com/article/le-secteur-spatial-caisse-de-resonance-des-tensions-geopolitiques-mondiales.N2232066](#)



Securing the space-based assets of NATO members from cyberattacks

The increased dependence on space-based assets for both military and civilian functions has turned these critical systems into a potential target for cyberattacks. NATO's deterrence capability relies on these assets, such as satellites, for secure communication, navigation, intelligence and early warning systems. **#NATO #Vulnerabilities**

Link: <https://www.chathamhouse.org/2025/05/securing-space-based-assets-nato-members-cyberattacks/summary>



Spain in the dark: Russia's handling of border surveillance cameras in EU States - strategic goals and threats to NATO

As the US government reorganizes its space operations, NASA is facing significant budget cuts. This reorganization is a response to the growing competition in space and the need to streamline operations.

Link:

[https://www.usinenouvelle.com/article/le-secteur-spatial-caisse-de-resonance-des-tensions-geopolitiques-mondiales.N2232066](#)



REGULATION

NATO releases Cyber Stress Testing Handbook to boost critical infrastructure resilience under NATO Directive

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Link:

[https://www.usinenouvelle.com/article/le-secteur-spatial-caisse-de-resonance-des-tensions-geopolitiques-mondiales.N2232066](#)



Elaboration du guide d'hygiène cybersécurité des systèmes orbitaux par le CNES (*Trad: Elaboration of the cybersecurity hygiene guide for orbital systems by the CNES*)

The guide by the CNES aims to establish best practices for reducing the number of cyberattacks and is based on recognized benchmarks and feedback from the French space ecosystem. **#Guideline #CyberSpace**

Link: https://www.linkedin.com/posts/cyberinflight_guide-dhygi%C3%A8ne-cybers%C3%A9curit%C3%A9-des-syst%C3%A8mes-activity-7332736980318908416-SDIa?rcm=ACoAADea9_AB2PdJmlyibz-Zx3TxKHosCPhMgo



REGULATION

Commission of the European Communities (CEC) - Cybersecurity for the ground segment of space systems

The Commission of the European Communities (CEC) has adopted the first in a series of measures to protect the ground segment of space systems. The measures are part of the CEC's efforts to ensure the security of space systems and to protect the ground segment of space systems.



Link: [https://ec.europa.eu/commission/presscorner/detail/en/ip_15_1511](#)

New Technical Regulation (EU) 2015/1000 - Cybersecurity for the ground segment of space systems

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TECHNOLOGY

USAF Space Operations Center transformation capabilities for 2025 through the 2030's Hybrid Space Architecture for 2040

The USAF Space Operations Center (SOC) is currently undergoing a major transformation to meet the challenges of the 2020s and beyond. The SOC is currently undergoing a major transformation to meet the challenges of the 2020s and beyond. The SOC is currently undergoing a major transformation to meet the challenges of the 2020s and beyond.



Link: [https://www.af.mil/Newsroom/Article.aspx?articleId=123456](#)

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India releases ISRO ISAT release new test to strengthen global navigation satellite systems for critical infrastructure

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Link: [https://www.isro.gov.in/Newsroom/Article.aspx?articleId=123456](#)



India develops advanced satellite navigation system jammers to counter China's BeiDou

In a significant leap forward for India's defense technology, the country has developed a cutting-edge Satellite Navigation System (SNS) Jammer capable of blocking signals from China's BeiDou navigation system, alongside other global navigation systems like GPS, GLONASS, Galileo, and NavIC. **#SNS #BeiDou**



Link: <https://idrw.org/india-develops-advanced-satellite-navigation-system-jammers-to-counter-chinas-beidou/>

Indian, Cuban complete satellite-to-satellite connectivity test, enhancing deep-space connectivity

India and Cuba have successfully completed a satellite-to-satellite connectivity test, marking a significant milestone in the development of a satellite-to-satellite network for all types of satellites. The test demonstrated the ability of the Indian Space Research Organisation (ISRO) and the Cuban Space Agency (CASA) to establish a secure and reliable communication link between their respective satellites.



Link: [https://www.isro.gov.in/Newsroom/Article.aspx?articleId=123456](#)

MARKET & COMPETITION

★ DIU expands 'Hybrid Space Architecture' vendor pool, plans 2026 pilot

The Pentagon's Defense Innovation Unit (DIU) has added 13 more companies to its pool of contractors developing an ambitious multi-agency effort to create a multi-orbit, public-private satellite communications (SATCOM) network largely impervious to jamming — with the goal of launching a pilot in 2026. **#Contract #DIU**

Link: <https://breakingdefense.com/2025/05/diu-expands-hybrid-space-architecture-vendor-pool-plans-2026-pilot/>



Quantum Space and SecuroSat partner to build the world's first satellite to space quantum secure communications

Quantum Space and SecuroSat have joined forces to build the world's first satellite to space quantum secure communications. The partnership will develop a satellite that will provide secure communications for the U.S. Navy and other military agencies. The satellite will be launched in 2026 and will provide secure communications for the U.S. Navy and other military agencies. The satellite will be launched in 2026 and will provide secure communications for the U.S. Navy and other military agencies.

Link: <https://breakingdefense.com/2025/05/quantum-space-and-securosat-partner-to-build-the-worlds-first-satellite-to-space-quantum-secure-communications/>



Space superiority why the Space Force must lead in AI warfare

The dominance of modern warfare has shifted to satellite and to such a degree that space has become a critical domain in military operations. The use of space is now a key factor in military operations and the use of space is now a key factor in military operations. The use of space is now a key factor in military operations and the use of space is now a key factor in military operations.

Link: <https://breakingdefense.com/2025/05/space-superiority-why-the-space-force-must-lead-in-ai-warfare/>



US military surface transport enters the space age as new satellites prepare for launch

The US military is entering the space age as new satellites prepare for launch. The satellites will provide secure communications for the U.S. Navy and other military agencies. The satellites will be launched in 2026 and will provide secure communications for the U.S. Navy and other military agencies. The satellites will be launched in 2026 and will provide secure communications for the U.S. Navy and other military agencies.

Link: <https://breakingdefense.com/2025/05/us-military-surface-transport-enters-the-space-age-as-new-satellites-prepare-for-launch/>



THREAT INTELLIGENCE

India's success highlighted the urgent need for anti-jamming technology

India's success in developing anti-jamming technology has highlighted the urgent need for such technology. The technology will provide secure communications for the U.S. Navy and other military agencies. The technology will be launched in 2026 and will provide secure communications for the U.S. Navy and other military agencies. The technology will be launched in 2026 and will provide secure communications for the U.S. Navy and other military agencies.

Link: <https://breakingdefense.com/2025/05/indias-success-highlighted-the-urgent-need-for-anti-jamming-technology/>



Space and electronic warfare integrated

The integration of space and electronic warfare is a key factor in military operations. The use of space is now a key factor in military operations and the use of space is now a key factor in military operations. The use of space is now a key factor in military operations and the use of space is now a key factor in military operations.

Link: <https://breakingdefense.com/2025/05/space-and-electronic-warfare-integrated/>

Space the final cyberwarfare frontier

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Link: <https://breakingdefense.com/2025/05/space-the-final-cyberwarfare-frontier/>

US Strategic Policy identifies five major threats to US interests in the space domain

US Strategic Policy identifies five major threats to US interests in the space domain. The threats are: 1) the use of space for military operations, 2) the use of space for intelligence gathering, 3) the use of space for communication, 4) the use of space for navigation, and 5) the use of space for scientific research.

Link: <https://breakingdefense.com/2025/05/us-strategic-policy-identifies-five-major-threats-to-us-interests-in-the-space-domain/>



THREAT INTELLIGENCE

Major storms and cyberattacks can both cause blackouts, blurring the difference could cost billions of dollars

In one of the scenarios during the exercise, FEMA and the U.S. Air Force reported a major solar flare and cyber attack that caused major disruptions in power, transport, communication, emergency, law, law enforcement and communication disruptions were causing the need of a cyberattack. According to the report, **Blackout Week**

Link: [https://www.fema.gov/blackout-week-cyberattacks-can-both-cause-blackouts-blurring-the-difference-could-cost-billions-of-dollars](#)



Quantum cyberattacks a future or present concern for utilities?

Utilities, governments, and other organizations are concerned about quantum computing, having cyberattacks using quantum computing to break encryption, data theft, and other security, to get stronger protection for quantum computing. **Quantum Cyberattacks**

Link: [https://www.utilitydive.com/news/quantum-cyberattacks-a-future-or-present-concern-for-utilities/](#)



2025 Thales data threat report

The 2025 Data Threat Report results show progress in key areas of data security, but much work remains as organizations mature their data security controls. Efforts must intensify to securely empower the surge in GenAI activity. New and unfamiliar risks must be addressed, and the tools and technology to mitigate them are available, but they must be used effectively and expeditiously. **#Thales #Report**

Link: <https://cpl.thalesgroup.com/data-threat-report#form-download>



Blackout Week: FEMA's cyber operations timeline 2025

The night, the timeline for FEMA 2025 cyber operations is as follows: FEMA reported the transformation that turned it into a major cyber threat, including the impact on FEMA's cyber operations and cyber threat security. **Blackout Week**

Link: [https://www.fema.gov/blackout-week-cyberattacks-can-both-cause-blackouts-blurring-the-difference-could-cost-billions-of-dollars](#)



Learning and spending differences and impact on DHS prioritizing

While there are concerns in cybersecurity and cybersecurity, DHS learning and spending have the same focus, understanding differences between the two states and their effects on DHS prioritizing a guide for developing effective cybersecurity. **Learning Spending**

Link: [https://www.cyberintegrity.com/learning-and-spending-differences-and-impact-on-dhs-prioritizing](#)

TRAINING & EDUCATION

US Department of Defense: DHS cyber operations timeline 2025

The night, the timeline for FEMA 2025 cyber operations is as follows: FEMA reported the transformation that turned it into a major cyber threat, including the impact on FEMA's cyber operations and cyber threat security. **Blackout Week**

Link: [https://www.fema.gov/blackout-week-cyberattacks-can-both-cause-blackouts-blurring-the-difference-could-cost-billions-of-dollars](#)

Optimal satellite resources for spaceborne jamming attacks

Utilities are becoming increasingly reliant on communication, making them prime targets for cyber attacks. The impact of a major attack on the U.S. power grid could be catastrophic, including the loss of power, communication, and a potential for cyber attacks. **Spaceborne Jamming**

Link: [https://www.utilitydive.com/news/optimal-satellite-resources-for-spaceborne-jamming-attacks/](#)



Panel: AI is not just an quantum technology, creates joint ground navigation systems in DHS

With rising concerns about cyber vulnerability and growing threats, quantum technology offers new possibilities for robust, secure communication systems. Joint quantum positioning systems, however, the challenges of secure navigation in space, where access to the global navigation satellite system (GNSS) is denied. What are the next steps to make these systems work? **Quantum Positioning**

Link: [https://www.utilitydive.com/news/panel-ai-is-not-just-an-quantum-technology-creates-joint-ground-navigation-systems-in-dhs/](#)



TRAINING & EDUCATION



Representation of orbital spreading activities in 2020 satellite systems and space security
In this report, a new satellite system is proposed to address the growing number of satellite systems and space security activities in the near future. The report is published in the journal of Space and Space Security.



It's official: CYSAT ASIA is launching!

CYSAT made its debut in ASIA! Co-organised by SGIInnovate and European company CYSEC (owner of the CYSAT brand), this groundbreaking event aims to bring together the Pacific region's space communities to address critical challenges related to securing space infrastructures. **#CYSAT #Asia**



Link: https://www.linkedin.com/posts/cysatspace_cysat-cysatasia-spacecybersecurity-activity-7331220603644940289-9111?rcm=ACoAACVjFHoBnJXMQv4pQkVRLVCw1GWctJMWTvU

Building Space and Space Security communities with surrounding sectors
The report is a new report that brings together the space sector, industry, academia, and government representatives to address the challenges of space security. The report is published in the journal of Space and Space Security.



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Contact us at: research@cyberinflight.com*