

SPACE CYBERSECURITY WEEKLY WATCH

Week 39

September 19 – 25, 2023

Timeframe : Weekly
of articles identified : 22
Est. time to read : 40 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.

- **GEOPOLITIC**
- **MARKET & COMPETITION**
- **TECHNOLOGY**
- **THREAT INTELLIGENCE**
- **TRAINING & EDUCATION**
- ★ **IMPORTANT NEWS**

Overview

This week AIA issued a statement urging the National Security Council that space should not be designated as a U.S. critical infrastructure sector, and how such a designation would affect space systems and the space industry. USSF is also currently revising a “Commercial Space Strategy” to offer more specific guidance on what commercial capabilities are needed, particularly in space domain awareness

On the market front, ESA has just announced its collaboration with the European Commission on the Iris2 project, for which a 12-year agreement has been signed. Iris2 intends to promote digital autonomy and provide a strategic asset for the EU.

This week, a number of jamming-related news were reported, including Russia's Krasukha electronic warfare system. According RIA Novosti, Russia's Krasukha electronic warfare system forces Ukrainian soldiers to abandon combat missions through intense jamming of all avionics systems in the aircraft.

On the technological front, Boeing's new military satellite was revealed, featuring anti jamming technology.

Finally, the first Australian Space Cyber Forum will take place on October 10, 2023 in Adelaide.

GEOPOLITIC



Karabakh army dismisses Azerbaijan claim on jamming Radio Tbilisi Night GPs
 The Azerbaijani Defense Army (DA) has dismissed the claim that the jamming of radio signals from the Radio Tbilisi Night GPs is the work of the Azerbaijani Defense Army (DA) on September 19, 2023. **#US #CriticalInfrastructure**
 Link: [https://www.satellitetoday.com/government-military/2023/09/19/karabakh-army-dismisses-azerbaijan-claim-on-jamming-radio-tbilisi-night-gps/](#)



AIA Takes Stance Against Space as a Critical Infrastructure Sector
 Powerful industry group Aerospace Industries Association (AIA) is taking the stance that space should not be designated as a U.S. critical infrastructure sector. AIA released a letter on Tuesday urging the National Security Council (NSC) to assess how such a designation would affect space systems and the space industry. **#US #CriticalInfrastructure**
 Link: <https://www.satellitetoday.com/government-military/2023/09/20/aia-takes-stance-against-space-as-a-critical-infrastructure-sector/>



Space Force revising commercial space strategy to make it "actionable"
 The command and control of the U.S. Space Force will be revised to make a commercial space strategy to offer more specific guidance on what commercial capabilities are needed, particularly in space domain awareness (SDA).
 Link: [https://www.satellitetoday.com/government-military/2023/09/20/space-force-revising-commercial-space-strategy-to-make-it-actionable/](#)



State Dept. Contractor is Accused of Stealing Satellite Imagery of Africa
 A State Department contractor has been accused of stealing satellite imagery and other sensitive information about military activities in Africa. The contractor was a former employee of the State Department. **#US #CriticalInfrastructure**
 Link: [https://www.satellitetoday.com/government-military/2023/09/20/state-dept-contractor-is-accused-of-stealing-satellite-imagery-of-africa/](#)





Three squadrons from the 320th Wing join 11th Space Wing

The 320th Space Operations Squadron, the 310th Space Force Squadron and the 30th Test Squadron now fall under the 11th Operations Group. #SpaceCybersecurity #USAF

Link: <https://www.af.mil/Newsroom/Content.aspx?ContentID=212444> Three squadrons from the 320th Wing join 11th Space Wing



MARKET & COMPETITION

Planet, Wotifsky and SESIQ announce an exciting step forward in their collaboration to enhance the security and interoperability of Planet's drones using Wotifsky's satellite network and SESIQ's communications

Planet and Wotifsky International Holding Ltd, with SESIQ Corp announced an exciting step forward in their collaboration to enhance the security and interoperability of Planet's drones using Wotifsky's satellite network. #Wotifsky #Planet

Link: <https://www.planet.com/newsroom/wotifsky-planet-announces-exciting-collaboration/>

ESA Building Galileo Second Generation Ground Segment

ESA is currently developing the ground control segment for the 2nd orbit validation system for Galileo Second Generation (GS2) under a contract signed recently with the European Space Agency. The contract exceeds 420 million in value, making a total of more than 1.2 billion in contracts signed by ESA for work on the Galileo program since 2010. #ESA #Galileo

Link: https://www.esa.int/Enabling_Support/Building_satellite_systems/Galileo/Galileo_second_generation_ground_segment



Space industry challenges: Aerospace consolidation, Phase breaks up

Two programs in the space market restructured their organizations this week. Federally funded research and development under (FFRDC). The Aerospace Corporation and remote sensing industry behemoth Phase Technologies. #AerospaceCorporation #Phase

Link: <https://www.freda.com/aerospace-industry-aerospace-consolidation-phase-breaks-up/>



ESA works with EU on secure connectivity

The European Space Agency (ESA) and the European Commission have signed an agreement on the 21st of September to use space to help keep information secure. The agreement envisages a constellation of satellites called Iris2. It stands for "Infrastructure for Resilience, Interconnectivity, and Security by Satellite". #EU #ESA

Link: <https://spacewatchglobal.com/2023/09/esa-works-with-eu-on-secure-connectivity/>



Seeking Innovative Concepts for Space Superiority

OSD is seeking innovative concepts from small businesses and non-additional defense contractors in the technical domain of space superiority in the second topic round under the agency's Emerging/Serialized Innovation to Defense and Government Systems (ESIGS) initiative. #OSD #ESIGS

Link: <https://www.osd.mil/News/ESIGS-2/>



TECHNOLOGY



Boeing's new military satellite

The combination of military satellite communications (MILSATCOM) and anti-jam capabilities underpin the PWS design. Both programs are based on Boeing's 702X, software-driven technology enabling real-time and automated beam-forming for improved stand-off performance and signal protection. #AntiJamming #Boeing

Link: <http://milsatmagazine.com/story.php?number=590255259>

Some Space Systems Partners with otherWares

One power (OS) report indicates provider otherWares has partnered with Some Space Systems to develop a solution that tracks lower-mass frequency (LFB) signals. The LFB, a next-generation position, navigation, and timing (PNT) service is provided by a constellation of small, geostationary Earth-orbit (GEO) satellites that are 1/10th the size of Earth-orbiting GPS. #OtherWares #SpaceSystems

Link: <https://www.otherwares.com/news/space-systems-partners-with-otherwares/>

THREAT INTELLIGENCE

Resurgence in GPS jamming with surge (Trad.: Multiplication of GPS jamming against Norway)

Since 2022, there has been a multiplication of GPS outages over East Froland. While a total of 20 days of GPS outage outages were reported in East Froland throughout 2022, the number increased to 120 days in 2023. Now in 2023, there are almost daily outages. **Warning: Jamming**

Link: <https://www.eurasiantimes.com/ukrainian-fighter-jets-abandon-combat-missions-after-navigation/>



Russia's Krasukha EW System Forcing Ukrainian Fighter Jets To Abandon Missions After 'Navigation Fails'

Russia's Krasukha electronic warfare (EW) system is forcing Ukrainian fighter aircraft to abandon combat missions through intense jamming of all avionics systems in the aircraft, an informed source told RIA Novosti. **#Jamming #Russia**

Link: <https://www.eurasiantimes.com/ukrainian-fighter-jets-abandon-combat-missions-after-navigation/>



GPS SMT invites Critical Infrastructure Owners and Operators to GPS Spoofing Test Event

The Department of Homeland Security (DHS) Science and Technology Directorate (S&T) announced an opportunity for Critical Infrastructure Owners & Operators (CIO&Os) and Global Positioning System (GPS) equipment manufacturers to test their equipment against GPS disruption and spoofing. The 2024 GPS testing for Critical Infrastructure SMT (CI-SMT) is set for the fall of 2024. **GPS Jamming**

Link: <https://www.fishbase.org/species/andersonia>



Briefing 18: CSA Identifies 2 Critical Vulnerabilities Used by English Aerospace Sector

Threat briefing 18 by Tom Francis from the Space I&C, about the CSA joint cybersecurity advisory. **CSA #SpaceSec**

Link: <https://www.fishbase.org/species/andersonia>



Severe GPS jamming in Ben Gurion from Syria, Lebanon: Israeli official

The Israeli military website cited an informed Israeli official as saying that the interference to the Global Positioning System (GPS) devices at Ben Gurion Airport originates from Syria and Lebanon. **Jamming Threat**

Link: <https://www.fishbase.org/species/andersonia>



TRAINING & EDUCATION

Securing Satellite Communications with Quantum Cryptography

Podcast episode of Space Code Podcast, about how using "quantum numbers" will allow even legacy satellites to add today to become secure in a rapidly approaching quantum world. **Podcast #Quantum**

Link: <https://www.fishbase.org/species/andersonia>



First Australian Space Cyber Forum

The 1st Australian Space Cyber Forum, to be held at the Adelaide Conference Centre on October 10th 2023.

#SpaceCybersecurity #Conference

Link: <https://australiancybersecuritymagazine.com.au/first-australian-space-cyber-forum/>



Mansafly: An Approach to Satellite Reconnaissance

The latest research paper by Gregory Falco, 2023 AF. This proposes an approach for deploying a reconnet attack against a space vehicle that engages both a space source and high system. **Space Reconnaissance**

Link: <https://www.fishbase.org/species/andersonia>

The Hagan Lavell National Security Podcast

Episode 17 of the podcast about Internet 2 National Security. **Podcast #Podcast**

Link: <https://www.fishbase.org/species/andersonia>

Necker's SMT - A Collection of Resources for Building SMT Necker

This challenge asks hackers from around the world to focus their skills and creativity on solving cybersecurity challenges on space systems. **OSINT #OSINT** This article is a collection of resources for building SMT Necker.

Warning: Jamming

Link: <https://www.fishbase.org/species/andersonia>

CyberInflight is a Market Intelligence company dedicated to the topic of Space Cybersecurity. The company provides strategic market and research reports, bespoke consulting, market watch & OSINT researches and cybersecurity awareness training.

Contact us at: research@cyberinflight.com