

# Defense Systems

## DIGEST

14 JULY 2020 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER



### NOTABLE TECHNICAL INQUIRY

*How do different U.S. Department of Defense (DoD) organizations define unmanned aircraft system (UAS) swarms?*

Drone swarming is a debated definition within the DoD community and a term that has varied definitions, depending on the organization discussing it. DSIAC was tasked with collecting how different DoD organizations and U.S. armed services define UAS swarms. DSIAC used open sources, counter-UAS USA conference presentations, and subject matter expert input... [Read More](#)

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### FEATURED NEWS

#### Missile Defense Chief Looks to Handle Changing Threat

Navy Vice Adm. Jon Hill, the agency's director, told the Hypersonic Weapons Systems webinar in London the agency is looking to adapt current technologies against the hypersonic threat while looking toward new capabilities.

"The sad reality is that many of these threats, regardless of how they're launched and what their profiles are, really do look like hypersonic threats," he said.

Ballistic missiles as they approach impact are hypersonic, as are many maneuverable cruise missiles.

"So if you're the sailor on the deck of a ship, they all look the same to you," Hill said. "If you're a soldier manning a land-based battery, it's going to be maneuvering and coming in very... [Read More](#)



VOICE FROM THE COMMUNITY



**Yongming Zhang, Ph.D., CEO, QUASAR Federal Systems, Inc.**

My education introduced me to several multidisciplinary fields, including applied solid-state physics, electromagnetic (EM) field theory, low-noise EM sensing, signal processing, and system engineering. Over the past 16 years at QUASAR Federal Systems, I have led research and development for state-of-the-art compact electric and magnetic field sensor development and deployment. I went from research scientist to vice president of research to my present position of CEO. I've served as the principal investigator for more than a dozen U.S. government-funded research projects and have created sensor systems for applications as diverse as lightning detection, semiconductor manufacturing process monitoring, bullet detection and localization, tunnel detection, UXO detection and discrimination, and antisubmarine warfare.

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