

Atlantic Test Ranges



The Atlantic Test Ranges (ATR) designs, develops, integrates, installs, maintains and operates all test range instrumentation, communications and digital data gathering and handling equipment at NAVAIR Patuxent River Range instrumentation, communications and digital data gathering and handling equipment at NAVAIR Patuxent River. Range instrumentation includes acquisition, surveillance and tracking radar, special purpose electronic combat emitters, videographic and photographic instrumentation, laser tracking systems and optical tracking systems. ATR provides flight test control and range safety functions, provides Mid-Atlantic Area Frequency Coordinator services and coordinates Patuxent River special-use airspace.

FACILITIES

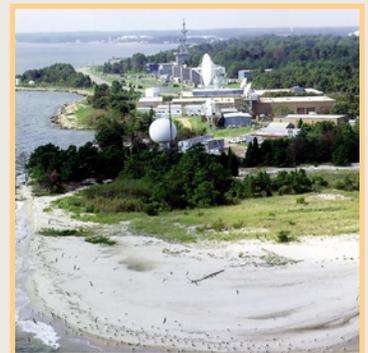
The Atlantic Test Ranges are fully-instrumented and integrated test ranges that provide full-service support for cradle-to-grave testing and training. This support includes Research, Development, Test and Evaluation (RDT&E) of aircraft, and training for aircrew and integrated avionics and mission systems.

ATR manages over 2,700 square miles of restricted airspace from surface up to 85,000 feet in the Chesapeake Test Range operating areas, which consist of selected targets and airspace covering regions over the Chesapeake Bay, Maryland, Delaware and Virginia. Additional air and sea space is available in the Atlantic Warning Areas, located east of the Delmarva Peninsula over the Atlantic Ocean. Scheduling these offshore warning areas, where support is typically provided, expands that area to over 50,000 square miles. This includes warning areas W-72, W-105, W-106, W-107, W-386 and W-387.

The Telemetry Data Center provides real-time radio-link reception, translation, processing and display of test data using the Real-time Telemetry Processing System. This widely-used system provides real-time test information from up to nine separate in-flight aircraft to ground engineering personnel. Test teams operate the system from any of the nine Project Engineer Stations.

FOR MORE INFORMATION

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Atlantic Test Ranges
Cedar Point Complex



ATR Range Control Center



ATR Project Engineer Station

Atlantic Test Ranges

SURFACE TARGET AREAS

ATR controls an aerial firing range and three exclusive-use surface target areas in the Chesapeake Test Range restricted areas – Hooper Target, Hannibal Target and Tangier Island Target. Surface target areas are available in restricted airspace for tests using inert ordnance. Target areas provide a safe, controlled location where air-to-surface firing and weapon separation testing can be conducted.

WALLOPS FLIGHT FACILITY

ATR maintains a partnership with NASA's Wallops Flight Facility (WFF), located on Virginia's Eastern Shore. The Wallops airfield provides target launch facilities, refueling capabilities, and a communications and telemetry relay back to the ATR Range control room for easy data exchange and test monitoring. By partnering with NASA at Wallops, ATR effectively extends its range capabilities well out into the Mid-Atlantic operating areas. The WFF launch site provides supersonic target services for fleet training and T&E of weapons systems. ATR provides technical support and on-site program coordination for the scheduling and operation of East Coast aerial target presentations (VANDAL/MQM-8G/X, BQM-34, BQM-74).

TEST AND TRAINING SUPPORT

Patuxent River is the Navy's principal RDT&E fleet support activity for Naval aircraft, engines, avionics, aircraft support systems and ship/shore air operations. ATR supports test and evaluation and training exercises:

RDT&E SUPPORT

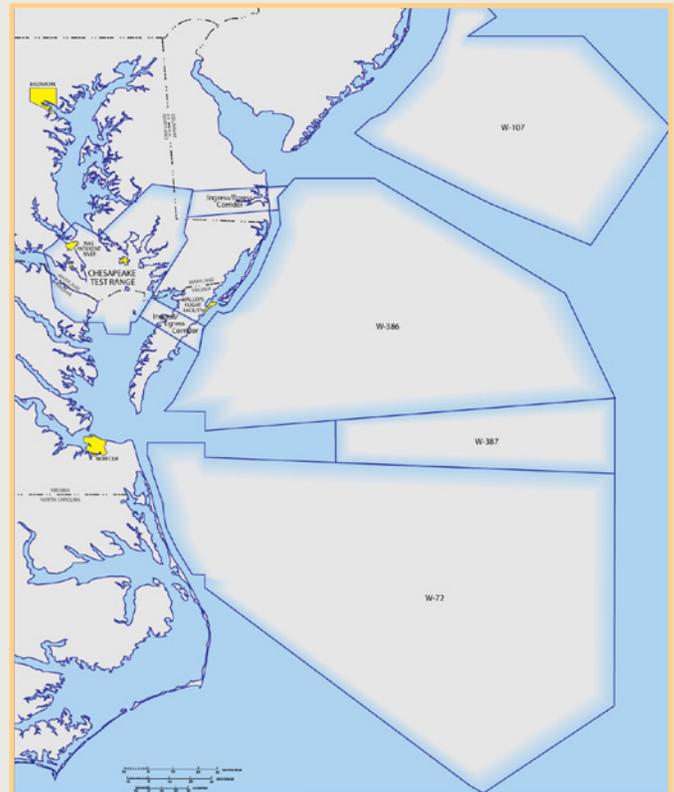
- Component Test
- Weapon Separation
- Electronic Warfare
- Carrier Suitability
- Systems Safety
- Sensors
- Flying Qualities
- Stability/Control
- Performance

TRAINING SUPPORT

- Joint Task Force Exercises
- Mining Exercises
- Missile Exercises
- Strike Exercises
- Aerial Target Support
- Carrier Strike Groups
- Expeditionary Strike Groups



Chesapeake Test Range
Restricted areas R-4002, 4005, 4006, 4007, 4008
Surface to 85,000 feet



Atlantic Warning Areas
Warning Areas W-386, W-387 and W-72
Surface to unlimited altitude