SSN 804 Barb [Virginia Class, Flight V] - 2027 VPM

United States

Type: SSN - Nuclear Powered Attack Submarine

Max Depth: -450 m

Max Speed: 32 kt

Commissioned: 2027

Length: 114.9 m

Beam: 10.0 m

Draft: 9.5 m

Crew: 113

Displacement: 6600 t

Displacement Full: 7800 t

Propulsion: 1x Nuclear Reactor

Sensors / EW:

- AN/BLQ-10(V)1 - (Virginia, CS-5500) ESM, SIGINT (ELINT & COMINT) w/ OTH Targeting, Max range: 926 km
- AN/WLY-1 - (2005) Acoustic Intercept (Active Sonar Warning), Acoustic Intercept & Torpedo Warning, Max range: 27.8 km
- AN/BQQ-10 - (Virginia) Hull Sonar, Active/Passive, Hull Sonar, Active/Passive Search & Track, Max range: 129.6 km
- AN/BPS-16 - (1996) Radar, Radar, Surface Search, Medium-Range, Max range: 166.7 km
- AN/TB-29 - (1996, 10x Produced) TASS, Passive-Only Towed Array Sonar System, TASS, Passive-Only Thin Line Towed Array Sonar System, Max range: 185.2 km
- AN/TB-34 - (2007, 2600ft Fat-Line) TASS, Passive-Only Towed Array Sonar System, TASS, Passive-Only Fat Line Towed Array Sonar System, Max range: 148.2 km
- AN/BQG-5A LWWAA [BSY-2] - (Virginia) Hull Sonar, Passive-Only, Hull Sonar, Passive-Only Ranging Flank Array Search & Track, Max range: 129.6 km
- AN/BQS-15 - (Virginia) Hull Sonar, Active-Only, Hull Sonar, Active-Only Under-Ice Navigation and Mine & Obstacle Avoidance, Max range: 0.7 km
- AN/BVS-1 TV/EO Component - (1.5x/24x Zoom) Visual, Visual, Surveillance & Navigation TV Camera, Max range: 41.7 km
- AN/BVS-1 LLTV Component - (2000s/2010s, 1.5x/24x Zoom) Visual, LLTV, Surveillance & Navigation Camera, Max range: 41.7 km
- AN/BVS-1 IR Component - (2000s/2010s, 1.5x/12x Zoom) Infrared, Infrared, Surveillance & Navigation Camera, Max range: 41.7 km
- AN/BVS-1 QLR IR Component - (1x/2x Zoom) Infrared, Infrared, Day/Night Spherical Situational Awareness & Fire Control, Max range: 27.8 km
- Large Vertical Array (LVA) - (1x/2x Zoom) Hull Sonar, Passive-Only, Hull Sonar, Passive-Only Ranging Flank Array Search & Track, Max range: 129.6 km

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Weapons / Loadouts:
- UGM-109C Tomahawk Blk III TLAM - (1994, TT) Guided Weapon. Land Max: 1666.8 km.
- UGM-109E Tomahawk Blk IV TACTOM - (2008, TT) Guided Weapon. Land Max: 1600.1 km.
- UGM-109D Tomahawk Blk III TLAM - (1996, TT) Guided Weapon. Land Max: 1296.4 km.
- Mk48 Mod 7 ADCAP CBASS - (2008, Shallow Water) Torpedo. Surface Max: 38.9 km. Subsurface Max: 38.9 km.
- UGM-109I Tomahawk Blk IV MMT [Multi-Mission] - (2015, TT, ASuW Capable) Guided Weapon. Surface Max: 1600.1 km. Land Max: 1600.1 km.
- UGM-109C Tomahawk Blk III TLAM - (1994, VLS) Guided Weapon. Land Max: 1296.4 km.
- UGM-109D Tomahawk Blk III TLAM - (1996, VLS) Guided Weapon. Land Max: 1296.4 km.
- UGM-109E Tomahawk Blk IV TACTOM - (2005, VLS) Guided Weapon. Land Max: 1600.1 km.
- UGM-109I Tomahawk Blk IV MMT [Multi-Mission] - (2015, VLS, ASuW Capable) Guided Weapon. Surface Max: 1600.1 km. Land Max: 1600.1 km.
- UGM-109J Tomahawk Blk V TACTOM - (2021) Guided Weapon. Land Max: 1664.9 km.
- UGM-109J Tomahawk Blk Va MST - (2023, Maritime Strike) Guided Weapon. Surface Max: 1664.9 km. Land Max: 1664.9 km.
- IR-CPS - (HGV Boost Module, Intermediate Range Conventional Prompt Strike) Guided Weapon. Land Max: 3704 km.
- ADC Mk4 Mod 1 Sonar Jammer - (2004, 6-inch) Decoy (Expendable). Subsurface Max: 1.9 km.
- ADC Mk2 Mod 3 Torpedo Decoy - (2007, 3-inch) Decoy (Expendable). Subsurface Max: 1.9 km.
- ADC Mk3 Mod 1 Torpedo Countermeasure - (2004, 6-inch) Decoy (Expendable). Subsurface Max: 1.9 km.
- ADC Mk2 Mod 0 Torpedo Decoy - (1979, 3-inch) Decoy (Expendable). Subsurface Max: 1.9 km.
- RIM-174A ERAM SM-6 Blk I - (2014) Guided Weapon. Air Max: 240.8 km.