S 46 Churchill - 1972

United Kingdom

Type: SSN - Nuclear Powered Attack Submarine

Max Depth: -300 m

Max Speed: 28 kt

Commissioned: 1972

Length: 86.9 m

Beam: 10.1 m

Draft: 8.2 m

Crew: 103

Displacement: 4400 t

Displacement Full: 4900 t

Propulsion: 1x Nuclear Reactor

Sensors / EW:
- Type 2024 - (1976, Clip-On) TASS, Passive-Only Towed Array Sonar System, TASS, Passive-Only Towed Array Sonar System, Max range: 74.1 km
- Type 197 [DUUG 1 Mod] - (1976, Clip-On) Acoustic Intercept (Active Sonar Warning), Acoustic Intercept, Max range: 27.8 km
- Type 2007AA - (1972) Hull Sonar, Passive-Only, Hull Sonar, Passive-Only Ranging Flank Array Search & Track, Max range: 74.1 km
- Type 2001BC - (SSN Bow Sonar) Hull Sonar, Active/Passive, Hull Sonar, Active/Passive Search, Max range: 33.3 km
- Type 1006(1) [KH 19/9A] - (Submarines) Radar, Radar, Surface Search & Navigation, Max range: 118.5 km
- Generic ESM [Average] - (1980s) ESM, ELINT, Max range: 926 km
- Generic Submarine Periscope, Optical - (1960s, 1x/6x Zoom) Visual, Visual, Surveillance Periscope, Max range: 27.8 km

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Weapons / Loadouts:
- Mk23 Grog - (1972, ASW, RN) Torpedo. Subsurface Max: 7.4 km.
- Mk8 Straight Runner - Torpedo. Surface Max: 5.6 km.

OVERVIEW: The CHURCHILL is a nuclear-powered patrol attack submarine (SSN).

DETAILS: The CHURCHILL class were primarily used in the anti-submarine role. They incorporated the rafting concept, to reduce machinery noise.

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Specifications:

Displacement: 4,000 (Light); 4,800 tons submerged.
Speed: 28 knts (submerged)
Engineering: 1 pressurized water-cooled reactor; 1 shaft
Diving Depth: 300 meters
Range:
Complement: 103
Hulls built: 3
Period of Service: 1970-1992

NOTES: Units in class: CHURCHILL (S 46); CONQUEROR (S 48); COURAGEOUS (S 50)

SOURCES: Moore, John Evelyn. Jane's Fighting Ships 1987-88. London: Jane's Pub, 1987, pg. 658 ; Churchill-class submarine - Wikipedia, the free encyclopedia. (n.d.). Retrieved May 4, 2015, from http://en.wikipedia.org/wiki/Churchill-class_submarine ; Valiant / Churchill. (n.d.). Retrieved from http://www.globalsecurity.org/military/world/europe/hms-valiant.htm