

PLARK-661 Papa [Anchar] - 1973

Soviet Union [-1991]

Type: SSN - Nuclear Powered Attack

Submarine

Max Depth: -450 m

Max Speed: 40 kt

Commissioned: 1973

Decommissioned: 1988

Length: 106.9 m

Beam: 11.6 m

Draft: 8.0 m

Crew: 82

Displacement: 5280 t

Displacement Full: 7100 t

Propulsion: 1x VM-5m Nuclear Reactor,

177.4MW

Sensors / EW:

- Shark Teeth [MGK-300 Rubin] - Hull Sonar, Active/Passive, Hull Sonar, Active/Passive Search & Track, Max range: 14.8 km
- Park Lamp - ESM, HF/DF, Max range: 926 km
- Shark Sail [MGK-300 Rubin] - Acoustic Intercept (Active Sonar Warning), Acoustic Intercept, Max range: 27.8 km
- Brick Pulp [MRP-21 Zaliv-P] - (Victor, Charlie) ESM, RWR, Radar Warning Receiver, Max range: 222.2 km
- Snoop Tray 2 [MRK-50 Kaskad] - (Victor, Charlie) Radar, Radar, Surface Search, Short-Range, Max range: 37 km
- Mine Avoidance [MG-509 Radian-1] - (Papa, Victor I/II) Hull Sonar, Active-Only, Hull Sonar, Active-Only Mine & Obstacle Avoidance, Max range: 0.9 km
- Generic Submarine Periscope, Optical - (1970s, 1.5x/8x Zoom) Visual, Visual, Surveillance Periscope, Max range: 41.7 km
- Generic Submarine Periscope, LLTV - (1970s, Gen 1, 1x/2x Zoom) Visual, LLTV, Surveillance & Navigation Camera, Max range: 27.8 km



Weapons / Loadouts:

- SS-N-7 Starbright [P-70 Ametist] - Guided Weapon. Surface Max: 74.1 km.
- SS-N-7 Starbright [P-70 Ametist, 200kT Nuclear] - Guided Weapon. Surface Max: 74.1 km.
- Generic Acoustic Decoy - (1970s, Noisemaker / Bubble Screen) Decoy (Expendable). Subsurface Max: 1.9 km.
- 53-65K WH - (1972, Submarine, Widely Used) Torpedo. Surface Max: 7.4 km.
- 53-65N Gyro [NATO 53-68N, 20kT Nuclear] - (1971, Submarine) Torpedo. Surface Max: 7.4 km.
- SET-65M Enot-2 [NATO ET-80A[76]] - (1973, Submarine) Torpedo. Subsurface Max: 7.4 km.

OVERVIEW: The PAPA SSGN (Project 661) is a nuclear-powered guided missile submarine.

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DETAILS: The single PAPA- class SSGN is likely a prototype to test SSGN in concepts. It was intended to carry an ASM missile that was never deployed and was subsequently fitted to carry the SS-N-9. The single PAPA SSGN has little operational deployments, and has undergone extensive overhauls.

NOTES:

Displacement: 8,000 tons submerged.

Speed: approximately 42 knots submerged

Reactors: 2

Complement: 85 (approx.)

Hulls built: 1

Period of Service: 1971-1988 (in reserver)

SOURCES: Norman Polmar, "Guide to the Soviet Navy, 3rd ed. (Annapolis, MD: Naval Institute Press, 1983), 95 ; Norman Polmar, "Submarines of the Russian and Soviet Navies, 1718-1990. (Annapolis, MD: Naval Institute Press, 1991), 302 ; Federation of American Scientists. "Project 661 Anchar / Papa - Russian / Soviet Nuclear Forces." Accessed November 30, 2013. <http://www.fas.org/nuke/guide/russia/theater/661.htm>.