

SS-N-19 Shipwreck [P-700 Granit] (1984)

Guided Weapon

Type: Guided Weapon

Weight: 7360.0 kg

Length: 8.84 m

Span: 2.6 m

Length: 8.84 m

Diameter: 1.14

Generation: None



Properties: Home On Jam (HOJ), Flight Profile - Terrain Following, Search Pattern, Bearing-Only Launch (BOL),
Weapon - INS Navigation, Flight Profile - Level Cruise Flight
Targets: Surface Vessel

Sensors / EW:

- Active Radar Seeker [J-Band] - (ASM MR, SS-N-19) Radar, Weapon Seeker, Active Radar, Max range: 9.3 km
- Passive Radar Seeker - (SS-N-19/22) ESM, Weapon Seeker, Anti-Radiation, Max range: 18.5 km
- Active Radar Seeker [K-Band] - (ASM MR, SS-N-19) Radar, Weapon Seeker, Active Radar, Max range: 9.3 km
- Generic DECM [Average] - (1980s) ECM, DECM, Defensive ECM, Max range: 0 km

Weapons / Loadouts:

- SS-N-19 Shipwreck [P-700 Granit] - (1984) Guided Weapon. Surface Max: 555.6 km.

OVERVIEW: The SS-N-19 SHIPWRECK (P-700 Granit) is a ramjet-powered supersonic surface-to-surface anti-ship missile with a 750 hg high explosive or 500 kt nuclear warhead and an active S-band area search and X-band terminal attack phase radars.

DETAILS: The control system initially obtains target data from a wide variety of platforms, including satellites, ships, airborne units and ECM receivers. On launch, the GRANIT's 7-ton weight is initially propelled with a booster. This is jettisoned after launch. The guidance system uses both inertial guidance as well as receiving target updates via datalink from third-party platforms. In the terminal phase, the missile uses active terminal guidance as well as anti-radar homing. It may also have an infrared homing capability. It is believed to be ESM and ECCM resistant.

The SHIPWRECK has a unique guidance mode when fired in salvo. One of the missiles climbs to a higher altitude and detects the target using its radar and datalinks this information to the command platform for further target designation. The missile appears to complete its attack using a high-angle dive instead of a low level attack, using primarily its active

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radar for terminal guidance.

NOTES: The missile entered service in late 1983, and remains in service aboard OSCAR II SSGN, the KIROV CGN and the ADMIRAL KUZNETSOV CV

SOURCES: Wikipedia, the free encyclopedia. "P-700 Granit." Accessed November 28, 2013.

http://en.wikipedia.org/wiki/P-700_Granit ; Air Power Australia. "Soviet/Russian Cruise Missiles." Accessed November 28, 2013. <http://www.ausairpower.net/APA-Rus-Cruise-Missiles.html#mozTocId109867> ; Janes Weapon Systems Vol 3: Naval "SS-N-19 SHIPWRECK" dated 31 May 2013