

Russia deploys new nuclear arsenal

Two Borei-class submarines are the vanguard of Russia's next-generation "boomers" – boats packed with up to 16 new Bulava intercontinental ballistic missiles (ICBMs), each with multiple nuclear warheads

Bulava 30 (SS-NX-30)

Range: **8,000km** (estimate)

Third stage post-boost vehicle (PBV)

Carries RVs – multiple independently targetable re-entry vehicles (warheads)

Second stage booster

First stage

All stages use solid fuel which requires minimum maintenance

Length: **12.1m**

Diameter: **2.1m**

PBV separates from third stage motor

RVs armed and launched from PBV

Each PBV carries six to 10 re-entry vehicles

Each warhead has estimated yield of **100 kilotons** – over six times more powerful than Hiroshima bomb

Yuri Dolgoruki (K-535)

Alexander Nevsky (K-550)

Speed, surface: **15 knots**

Submerged: **29 knots**

Crew: 107-130, including 55 officers

Length: **170m**, beam: **13.5m**

Six 533mm torpedo tubes

Propulsion: Pressurized water reactor drives pump-jet propulsion system. Lower risk of cavitation reduces sonar signature

Armament: 16 submarine-launched ballistic missiles (SLBMs), plus six SS-N-15 nuclear-tipped missiles fired from torpedo tubes. Range: **45km**