

Russia's new generation nuclear arsenal

The first of a new fleet of eight Russian ballistic missile submarines is due to enter service. Each boat will carry up to 16 Bulava ICBMs – intercontinental ballistic missiles – each with multiple nuclear warheads

Bulava 30 (SS-NX-32/RSM-56)

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

PBV carries six RVs plus decoys

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

K-535 Yuri Dolgoruki

Borei class submarine

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 SS-N-15 nuclear-tipped missiles fired from torpedo tubes. Range: **45km**