

Missile defence draws Russian anger

Russia has warned Poland and the Czech Republic against hosting elements of the U.S. National Missile Defence system on their soil. Allegedly designed to intercept attack from "rogue" states, Moscow believes it endangers Russia and has threatened to quit the 1987 Intermediate-Range Nuclear Forces Treaty if the project goes ahead

POLAND: Possible sites in *Tatra Mountains* for 10-missile silo

Exo-atmospheric Kill Vehicle (EKV)

Warhead

IRAN

RUSSIA

Black Sea

TURKEY

Mediterranean Sea

CZECH REPUBLIC: *Brdy* military base to host radar

GROUND-BASED INTERCEPTOR (GBI)

Three-stage rocket – reaches speed of 5.9km/sec. Carries single EKV

EKV: Once released, star tracker establishes exact position in space

Rocket thruster

Fuel tank

Telescope with infrared sensor and star tracker

Attitude control system

Liquid nitrogen cryogenic cooling system

Warhead

Payload

In-flight tracking updates guide EKV towards threat

EKV infrared sensors detect heat emitted from nuclear decay of warhead payload

Combined impact velocity 24,000km/h