

An Essay At Summary: Terebinth

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1 boost phase intercept

Abstract

Considering Scenario of Ballistic Missile Defense Focused on Boost-Phase-Intercept, Procurment of Design and Engineering of Such, Large-Scale Operational Necessity of Best Simulation System for Evaluation of Design Possibility Space / Scenario Space.

1.1 summarizing our approach:

We proceed simply, define a concrete problem abstracted from all but technical considerations, propose a solution, in order to contextualize some things we want to assert.

Problem:

Ballistic / hypersonic missile attack out of Iran devastating Israel.

Solution Proposed:

Boost-phase intercept by AMRAAM armed drones highly persistent formations near enough to launch sites.

1.2 we discuss the solution:

Probability of intercept with (suitable sensor and homing configured) AMRAAM greatly exceeding terminal intercept of diverse munition types, from maneuvering ballistic to hypersonic terminal, with interceptor munition costs far lower.

The boost-phase intercept focused suppression / interdiction / interception does require something akin to air-dominance – a lower threshold of superiority – merely need to be able to operate in that space, requiring something of an air-dominance operation, substantial requirement, and given sufficient Russian and/or Chinese assistance, could be of debatable plausibility – nevertheless, the strength of legacy in USAF / western air forces including Israeli, is precisely in this domain, whereas the experience for intercepting in the terminal phase hypersonics is undeveloped as yet, while exo-atmospheric intercept is nearly as problematic as terminal, for somewhat different technical reasons – but similar: speed, speed tolerances, decoys, noise, etc.

In closing out this summary I will mention the obvious, not an original insight of mine: The physics of boost-phase intercept are easy. This multi-ton beast reaches the exoatmosphere only with painful effort, the onboard propellant makes them easy targets. Exceptions to this rule are provided by Russian engineering, if video I've seen of recent anti-ballistic-missile launches are accurate, device seems to leave the silo supersonic if not hypersonic. That is not a ballistic/(or pseudo-ballistic) missile, but the point is that boost phase can be compressed given sufficient expense on propellant, gravity-overload construction, etc.

Hitting the TELS on the ground is problematic given the noise / ease-of-decoy, as well the issue of subterranean firing points, through reinforced excavated mountain silos.

2 So, Then What...

Assuming our intuition is judged adequate by decision, prior to building hardware, we would need to simulate the design and scenario possibility space, evaluating viability, generating a range of possible attack profiles, hardware suites: sensors etc.

Computer simulation / modeling is the hub technical component of procurement, if it sufficiently totalizing, as the F-35 software was intended to be (?), ties battle concept together with raw materials processing for manufacturing, maintenance status, etc.

3 We Will Make Use of this Example Throughout the Discussion of Peregrine and Simulation