

The Cruise Missile Challenge

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The Cruise Missile Challenge

- Attractive Weapon System, they are
 - Hard to Detect & Track
 - Adaptable
 - Easily Transportable
 - Relatively Cheap
 - Accurate & Effective
 - Widely Available
- Instrument for achieving *asymmetric* advantages over U.S.
- Provides means to project air power without having an air force



Operation Iraqi Freedom also saw the first time cruise missiles were fired at U.S. forces when Iraq fired 5 modified HY-2 missiles at U.S. forces

Cruise Missiles

- Two Basic Types
 - Anti-ship cruise missiles (ASCMs)
 - Land-attack cruise missiles (LACMs)
- Ranges of 25 – 2,200 miles
- Can use dual-use systems for increased accuracy
 - Strike within a few feet of targets v. 1-2 km for SCUD-B
- Capable of carrying conventional & WMD warheads

How Difficult is it to Make a Cruise Missile?

- Not very; 3 different routes:
 - 1) Purchase (legal or otherwise);
 - 2) Indigenous Development;
 - 3) Modification of existing stocks.
- Most of the needed technology is *commercially available, off-the-shelf.*

Cruise Missile Arsenals are Growing Quickly

■ ASCMs

- 70 countries possess 75,000 missiles
- 19 countries manufacture them indigenously
- 11 countries provide them for export
 - Iran
 - China
 - North Korea
 - Russia

■ LACMs

- Proliferating rapidly
 - 12 countries producing them; only 3 in '98
- DIA concludes spending on R&D and production of LACMs outpacing ASCMs
 - China will have hundreds by 2030
 - Advanced Russian missiles now in Iran
 - France exporting *Apache* variants
 - Pakistan developing *Babur*

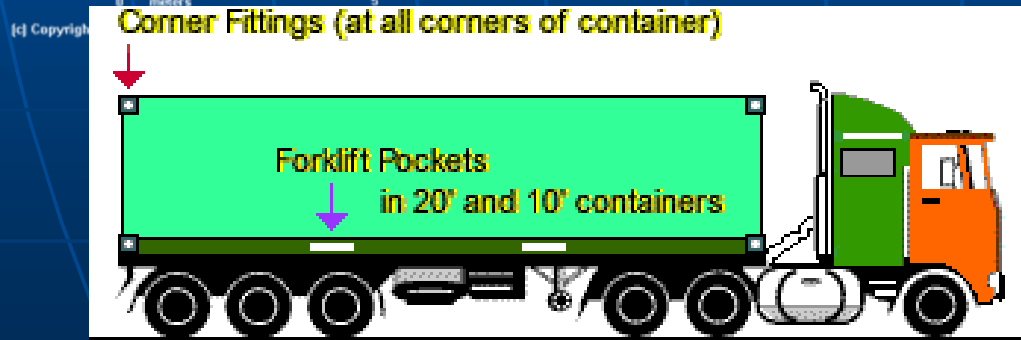
The New Weapon of Choice?

- By Peer Competitors
 - Offers air power without an air force
 - Reduces freedom of action for U.S. forces
- By Terrorists
 - Hold cities and bases at risk; effective instrument of terror
 - WMD delivery device
 - Less infrastructure than ballistic missiles

Homeland Defense



- U.S. has 12,000 miles of coastline.
- 75% of the population is <200mi. of coasts.
- 80% of GNP is generated within this zone.
- 125,000 shipping vessels registered worldwide.
- 90,000 of these are at sea at any time.



Detection & Interdiction Impossible

- There are up to 1,000 commercial vessels within 200 nmi. of U.S. coasts every 24 hours.
- Each ship can contain hundreds of containers, or tons of materials internally.



Homeland Exposed



Responding to the Challenge

Four Basic Approaches

- Non-proliferation
- Pre-emption
- Passive Defense
- Active Defense

Nonproliferation, preemption and passive defense each have limitations that significantly diminish their independent abilities to defend U.S. interests. Even together, none can prevent a cruise missile attack from doing damage if the missiles are launched and strike their targets. Only the construction of an active defense ensures the ability to intercept and destroy cruise missiles after they have been launched.

Where are CM Defenses?

- No wide-area CMD defense in place, nor are there any plans or budget to do so
- Concerns remain focused on fleet defense; not appear to appreciate the *asymmetric* scenario nor use of LACMs
- No one 'has the ball' nor the 'budget' for it