

CAG-1 Boston on 3 October 1955. 80-G-683643



The earliest US Navy AA missile installation (other than test ships, DDG 1 Gyatt) This is the solid fuel “Terrier” system. Note the separate “booster” stage. Tartar was similar but, with no booster stage, smaller. The guidance radars to the right are designed for “beam follower” guidance – the missile flies along the radar beam, aimed at the target.



Smaller ships – USS Robinson DDG-12. These had the single stage Tartar – range eventually as far as about 25 miles. Two rail launcher is near the stern. Two guidance radars and a massive height finding radar (on after stack) and air search radar (on main mast) are needed to support the missile system. (Also has 2 guns, ASROC, torpedoes)



US built 6 ships with “Talos” – bigger and longer range: ramjet, with solid fuel booster. This is USS Albany. Originally a WW2 heavy cruiser rebuilt about 1960 as a pure missile ship. Two dual Talos launchers forward and aft (Massive!), and two 2 rail Tartar systems amidships. The Talos system took up a lot of space! See diagram below.

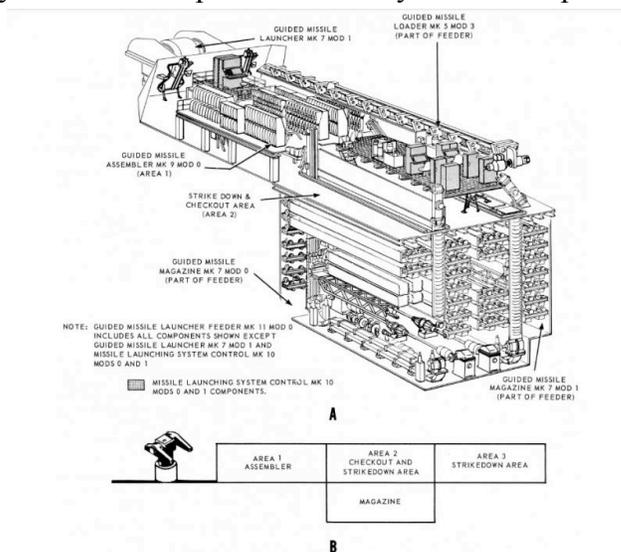


Figure 5-1. — Guided Missile Launching System Mk 12. (Talos)



A RIM-8 Talos missile launcher aboard USS Long Beach (CGN 9) in 1961. The very large size of the booster-launched, ramjet-powered Talos is evident in this photo. U.S. Navy photo

The photo on the right shows the Talos ramjet missiles on the nuclear cruiser CGN-9 Long Beach. They are really big. They turned out to be just too massive for installing on numerous ships. The 65mile + range was nice, but eventually comparable ranges were achieved with the “standard” missile in a configuration that looks like, and superceded, the Terrier. The Tartar was replaced by a one stage version of the “Standard” missile.



North Korean "Corvette" firing Russian Kh-35 anti-ship missile

**USS Enterprise (CVN-65) ablaze after a Zuni rocket accidentally went off in 1969, killing 28 men and destroying 15 aircraft**



What they want to achieve: USS Enterprise fire of 1969

Other more serious dangers:



Soviet Kashin class DDG "Smetlivy"

Carried 2 dual SA-3 (SS-N-1) launchers and 2 types of ASW rocket launchers



Soviet / Russian / Chinese SS-N-22 "Sunburn" Mach 3 anti ship missile – very dangerous  
This is an operational system that's been out there for a while, but hard to counter.



The new Chinese DF-21 ASBM – Anti Ship Ballistic Missile (as yet untested?)