

Corporate Lessons Learned

Expeditionary Warfare

Now and Then

Asymmetric Warfare

- Chief of Naval Operations
 - 21st Century as Century of Asymmetric Warfare
- Asymmetric Warfare
 - Cheap and Effective Weapons
 - Difficult to Combat
 - International and Domestic Sectors

US Force Projection

- Expeditionary Forces
 - Threat in Reserve
 - Effective Application
- Asymmetric Deterrent to Expeditionary Operations
 - Mine Warfare (MIW)
 - Sea Mines
 - Cheap, Effective, Available

Expeditionary MIW Definitions

- Blue Water
 - Choke Point Passage
 - Sea Base Protection
- Green Water
 - Sea Approaches
 - Harbors
- Brown Water
 - Beach Approaches
 - Surf Zone

Expeditionary Warfare

Recent History

- Mine Warfare Disrupted Landings
 - Korean War
 - Wonsan Oct 1950
 - 3000 mines laid
 - Desert Storm
 - Kuwait 1991
 - 1100 mines laid

Wonsan Expeditionary Operation

- “The Wonsan lesson, received at the hands of a minor power using relatively inexpensive means, were taken to heart by contemporary Navy policy makers. They must never be forgotten by those whose missions include the application of power from the sea. “

» Naval Historical Center

Photo # 80-G-423625 South Korean minesweeper hits a mine off Wonsan, October 1950

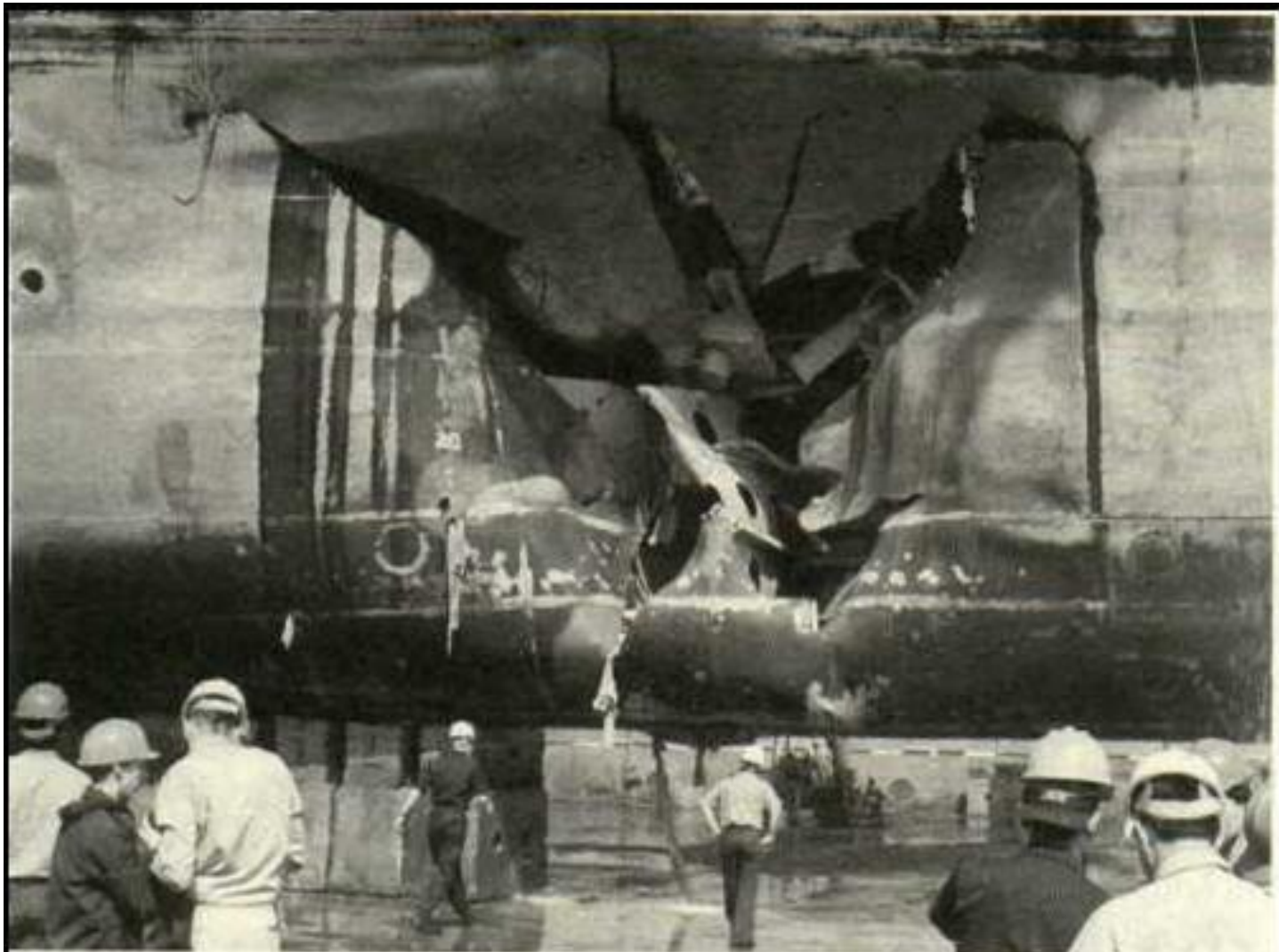


Wonsan Oct 1950

Desert Storm

".... The losses (Princeton and Tripoli) alerted the allied coalition to the severity of the mine threat and were a factor in the cancellation of the allies' planned amphibious assault into Kuwait. The other significant factor in the cancellation of the Gulf War landing was the time needed to clear the mines and the shore defenses that enhanced them."

General Norman Schwarzkopf



The magnitude of the mine damage to *Tripoli*, in drydock at Bahrain, is clear in this photo.

Desert Storm 1991

Desert Storm Results

- Management Focus
 - N95 Expeditionary Warfare
 - Marine General
 - MIW Management Functions
 - Mine Warfare N952
 - EOD N957

Next Generation Capability

- Littoral Combat Ship (LCS)
 - Expeditionary Warfare Effective
 - Shallow Water Capable
 - Fast
 - Flexible Capability
- Next Generation MCM Capability
 - Man out of Loop
 - UUVs, USVs
 - Helicopters



USS FREEDOM LCS 1

Expeditionary Warfare Requirements

- Keep Corporate Memory Sharp
 - Don't Forget Past MCM Experiences
 - Hard Learning Each Time
- Critical Situation
 - Asymmetric Enemy Capability
- Support Required
 - Dedicated Effort
 - Funding

Admiral Forrest Sherman Chief of Naval Operations

- "when you can't go *where* you want to, *when* you want to, you haven't got command of the sea".

- “.....mine countermeasures, that unglamorous side of maritime power that, when it is needed, is needed very badly.”
 - Naval Historical Center