

Coastal Warfare in World War II

Admiralty Trilogy Seminar
Presented by:
Clash of Arms Games





- What is Coastal Warfare?
- Littoral/Coastal Environment
- Background
- Mighty Midgets "Small Craft"
- Roles and Missions
- Tactics Overview
- National Development
- Post-WWII
- Coastal Warfare and CaS
- Some Good Books





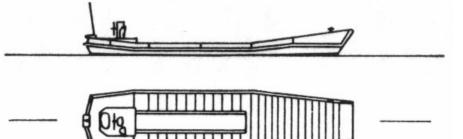
What is Coastal Warfare?



Coastal Warfare in WWII

- "Littoral" or Coastal waters
- Shallow water, often sheltered waters
 - Sometimes too shallow for larger naval vessels
- Not seagoing ships
 - Can't operate in Sea State 4-5, even then it's unpleasant
- More than just PTs and other high-speed craft
 - Motor launches for minesweeping, ASW, rescue (e.g. British MLs)
 - Small minesweepers (e.g. German R-boats)
 - Barges for transporting cargo (e.g. Japanese Daihatsus)
 - Landing craft
- Common factor is small size
 - Limited endurance
 - Light armament
 - Low damage capacity

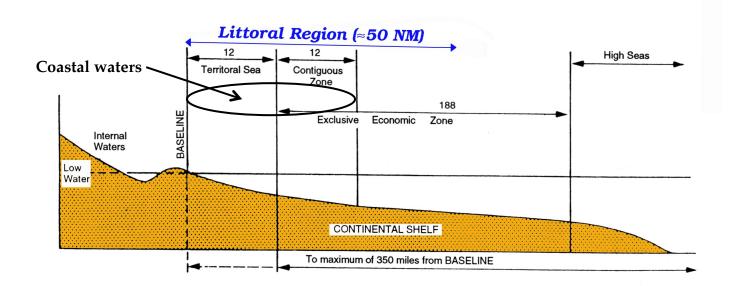
14-metre Type



Littoral/Coastal Environment



- Difficult environment due to the close proximity of land
- Detection Issue Heavy clutter
- Classification Issue Many false contacts
- Reduced operation space Restricted maneuverability
- All combine to reduce a ship's reaction time



Background



- WWI These are distinct from the "Torpedo Boat"
 - Seagoing vessel intended for fleet action
- Who built coastal combatants?
 - Britain: Built a dozen Coastal Motor Boats (CMBs)
 - 40 ft long, single rearward launched torpedo & a few MGs
 - Several dozen motor launches, 76ft long, 3 pdr, general-purpose duties
 - Italy: Dozens of different classes of motor torpedo boats & motor boat
 - Geography driven
 - 50-60ft long, mix of torpedoes, light weapons, and DCs
 - France: Built a few motor boats armed with DCs
 - Austria-Hungary: Built a few late in the war, never amounted to much
 - Russia: Built several classes of motor launches
 - USA & Japan: Didn't build any



Mighty Midgets - "Small Craft"

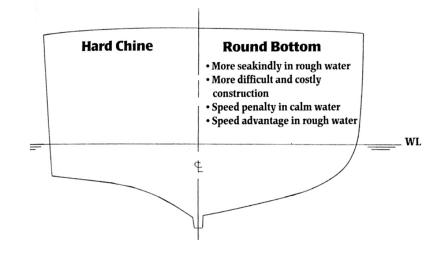
- Two general types of small craft
 - Those driven by the need for speed
 - Those that aren't
- High-speed craft
 - Hard chine, wooden hulls
 - Powerful engines
 - Torpedo attack craft or gunboats adapted from PT designs
- Motor launches and the rest
 - More conventional, rounded hulls
 - Less powerful engines
 - Exception German Schnellboot or S-boat

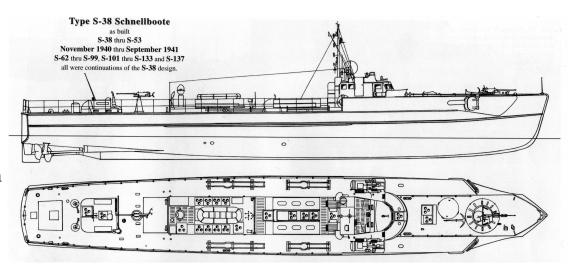




PTs, MTBs, MGBs, S-boats

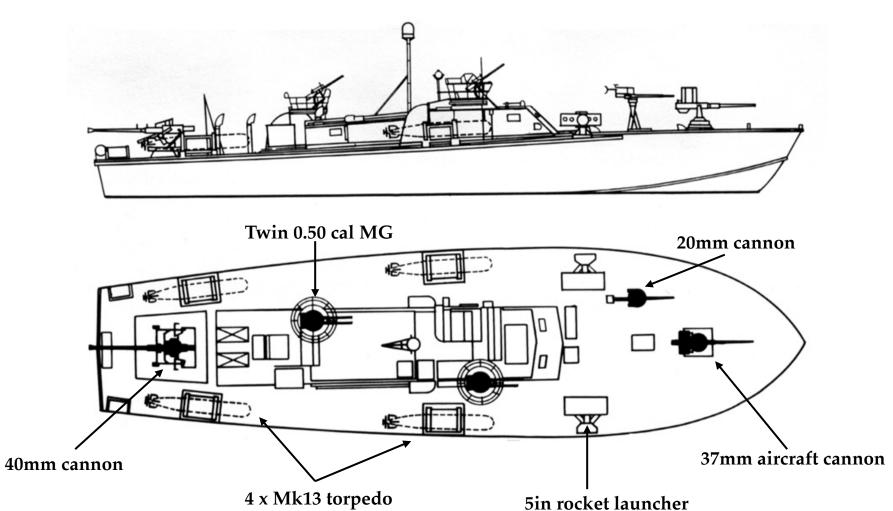
- Basic Ship Design
 - High-speed hull form
 - Hard chine, planning hull
 - Rounded hull, Lürssen effect
 - Powerful propulsion plant
 - Usually diesel, some petrol, few steam
 - Limited range, particularly at high-speed
 - Sensors
 - Mk 1 Mod 0 Eyeball
 - Radar
 - Weapons
 - Torpedoes
 - Machine Guns
 - Light-to-Medium cannon
 - Depth charges
 - Rockets
 - Kitchen sink











Roles & Missions



- Search & Rescue
- Scouting and reconnaissance
- Commando or Coast Watcher insertion/extraction
- Interdiction of coastal sea lines of communication (SLOCs)
- Coastal SLOC protection



Tactics Overview

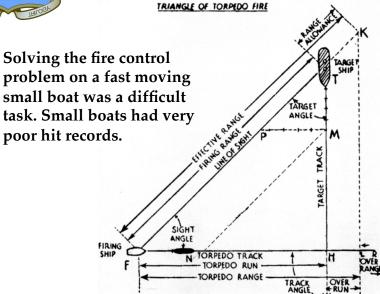


- Stalks the prey and then pounces when the time is right
- Stealth is the lifeblood of the coastal combatant
 - Low-speed approach: minimize noise and wake
 - Stay close to shore: maximize the cluttered environment
 - Use of camouflage and mufflers to remain undetected
- Close target as much as possible
 - Maximize torpedo attack probability of a hit
- Launch torpedoes, shoot guns
- Run away at flank speed
- Use smoke to screen



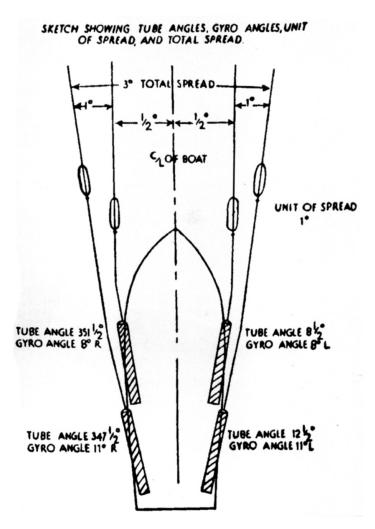
Torpedoes - David's Sling





On U.S. PT boats, lighter Mk13 airborne torpedoes replaced heavier ship-based weapons and their tubes.

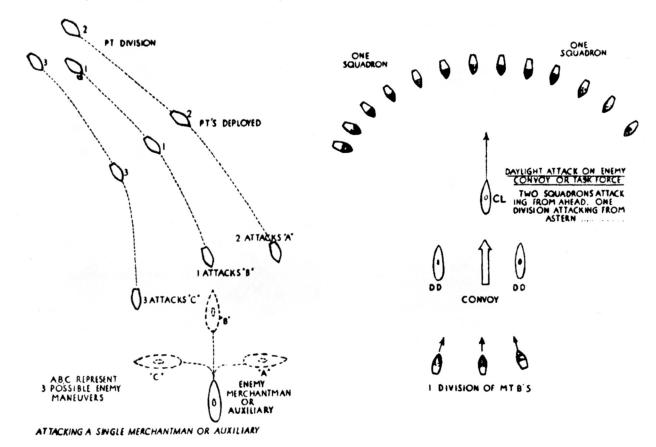








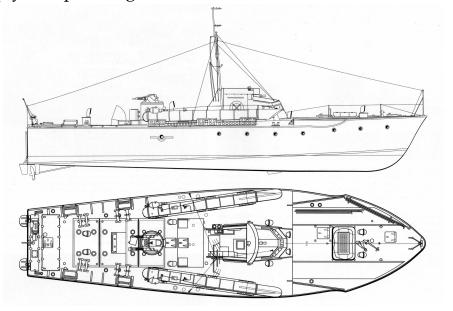
- PT boats, MTBs and S-boats often hunted in packs
- Diversion group set the target up for the kill







- Britain:
 - First to have large numbers of MTBs and MGBs
 - Used extensively in channel convoy raids
- USA:
 - PT boats quickly evolved into gunboats
 - Relatively few large targets, Pala Passage not withstanding
 - Adapted to breaking up coastal resupply of Japanese garrisons
- Soviet Union:
 - Used extensively in the Baltic and Black Seas



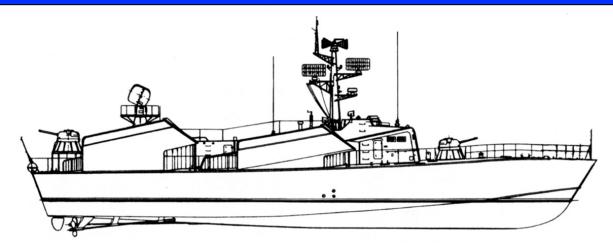
WWII National Development



- Germany:
 - S-boats were bigger, tougher and much more sophisticated design
 - Powerful gun armament
 - Some armor
- Japan:
 - Surprisingly, never adopted PT concept
 - Used thousands of barges to supply and transport troops
- Italy:
 - Had the largest MTB fleet of any major navy
 - MAS boats = Special Attack Motorboats
 - Most were small (<40 tons), fast, torpedo-carrying craft
 - Resembled British MTBs
 - Large class of ASW motor launches
 - Small explosive boats (MAT and MTM)
 - Approximately 300 kg explosive charge
 - *HMS York* sunk at Suda Bay, 25 March 1941

Post World War II





- 1960: Cruise missiles replace torpedoes
 - Project 183R [KOMAR]
 - Project 205 [OSA I]
- Soviets still retain torpedo boats
 - Project 206 [SHERSHEN]
- Speed not as much of an issue
 - Can't out run a missile
- Small size is for low cost as much as concealment
- Littoral/coastal environment remains part of concealment

Coastal Warfare and CaS



Coastal Warfare in WWII

• Rule changes for *Mighty Midgets*

New size class definitions

■ Size class E: 86 - 350 tons

■ Size class F: 21 - 85 tons

■ Size class G: \leq 20 tons

Damage

- Decimal damage system and hull points
- New Critical Hit columns
- Personnel casualties

Role Playing Rules

- Crew Experience Novice, Green, Competent, Crack, Elite
- Morale Shattered, Poor, Fair, Good, Excellent, "I'm Invincible!"
- Player assumes the role of squadron commander
- Battle planning and execution by boats under your command







PT Boats at War: World War II to Vietnam, by Norman Polmar & Samuel Loring Morison

Dog Boats at War: Royal Navy D Class MTBs and MGBs 1939-45, by Leonard C. Reynolds

Mediterranean MTBs at War: Short MTB Flottila Operations 1939-45, by L.C. Reynolds & H.F. Cooper

Devil Boats: The PT War against Japan, by William Breuer

Flag 4: The Battle of coastal Forces in the Mediterranean 1939-45, by Dudley Pope

Hot, Straight and True: An Anecdotal View of PT Boats in WWII, by Russ Hamacheck

E-Boat Alert: Defending the Normandy Invasion Fleet, by James Foster Tent

Coastal Forces at War: Royal Navy 'Little Ships' in World War II, by David Jefferson

At Close Quarters: PT Boats in the United States Navy, by CAPT Robert J. Buckley, Jr.

Hunters in the Shallows: A History of the PT Boat, by Curtis L. Nelson

American PT Boats in World War II, by Victor Chun

United States PT-Boats of World War II, by Frank D. Johnson

S-Boote: German E-boats in action 1939-1945, by Jean-Philippe Dallies-Labourdette

Night Action: MTB Flotilla at War, Captain Peter Dickens, RN

The Battle of the Narrow Seas, Lt. Cdr Peter Scott, RNVR

The Mosquito Fleet, by Bern Keating

PT 105, by Dick Keresey