# Invasion of Normandy

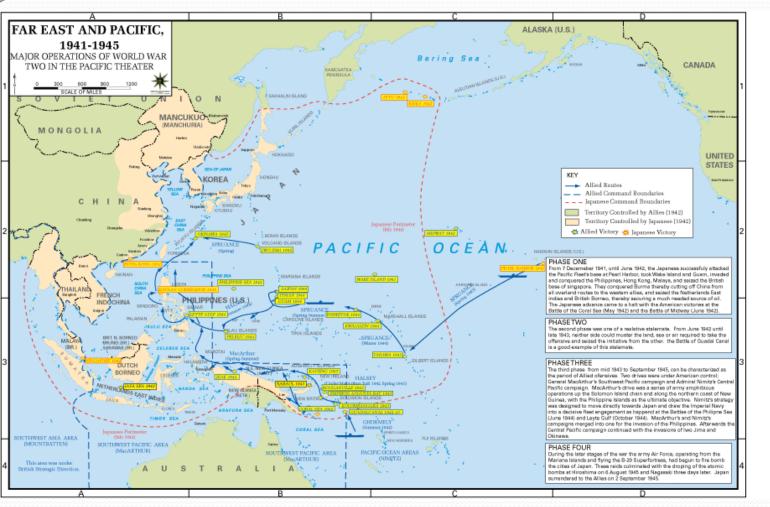
25298 Nick Noppinger

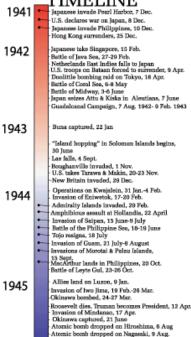
#### Class Schedule

- Class One- The Context or Mentalities
- Class Two- The Invasion
- Class Three- The Campaign and Breakout

# Normandy

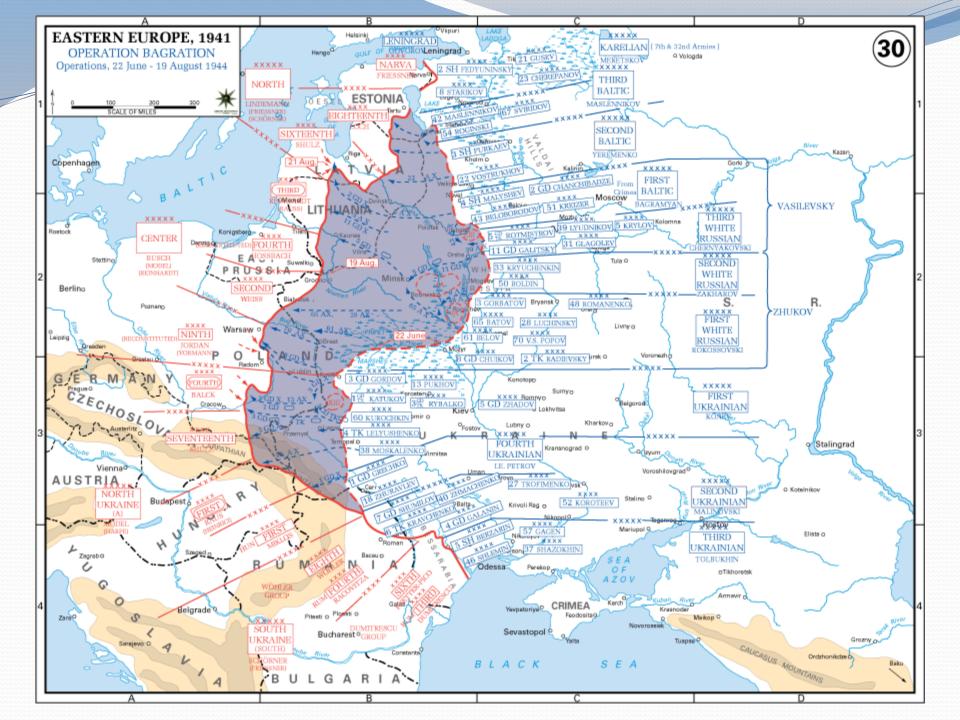
- Marks the first time that American troops, in large numbers, will go up against the Germans
- American becomes the senior partner among the Western Allies
- We were not entirely prepared for the combat in Western Europe
- The Northwestern European Campaign is where the bulk of US WW2 casualties will occur.
- Germany is by far the strongest Axis power.



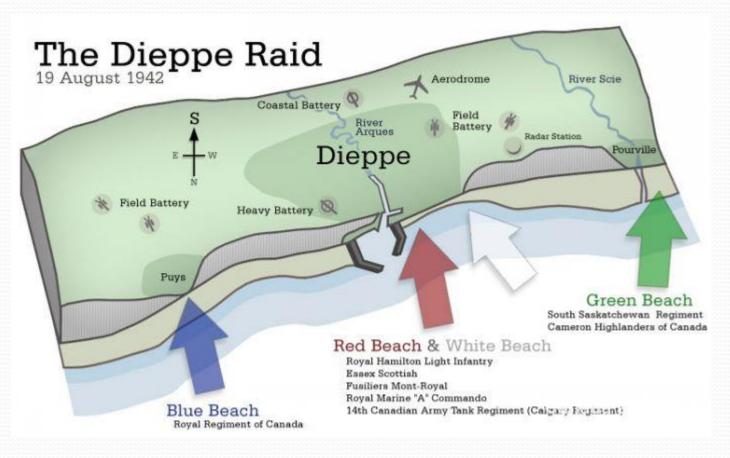


Japan agrees to surrender, 14 Aug

apan surrenders aboard U.S.S. Missouri, 2 Sept



# Dieppe Raid Aug 19, 1942















#### Lessons

- 1. the need for preliminary artillery support, including aerial bombardment;
- 2. the need for a sustained element of surprise;
- 3. the need for proper intelligence concerning enemy fortifications;
- 4. the avoidance of a direct frontal attack on a defended port city; and,
- 5. the need for proper re-embarkation craft.
- 6. Will lead to Hobart's Funnies
- 7. Will lead to development of Mulberries
- 8. Unified Command Structure-Unity of Command

**National Policy** 

**Grand Strategy** 

Military Strategy

Operations

**Tactics** 

# **National Policy**

- The basic and supreme war aim of the nation.
- Unconditional surrender of the Axis
- Everything else subordinate and considered tools to achieving the all encompassing national policy.
- For the Allies- Final defeat of Germany, Italy and Japan.
- For the South separation and independence.
- Political in nature.

## **Grand Strategy**

- The mobilization of a nations, political, military, social, cultural, religious, and economic forces to achieve the national policy.
- Military planning at its most basic- {a decision to invade Northwest Europe). Some overlap with military strategy.
- Centers of gravity.
- Center of gravity could be a geographical point or the enemy's army(ies). There can also be more than one.
- Grand strategy includes such things as emancipation.
- While it identifies centers of gravity, it is less military in nature, as it includes all of the factors.

# Military strategy

- The more detailed planning and employment of military forces in an attempt to carry out the grand strategy and national policy.
- "Arrows on maps"
- For example- Operation Overlord.
- Military in nature- the importance of other aspects still present but diminishing.
- Concentration in time
- Concentration in space

### Operations

- The planning and employment for a particular campaign.
- The management and organization of an army
- For example, the decision to invade at the specific beaches in Normandy.
- For Normandy- Divisional, corps to Army level

#### **Tactics**

• The employment of troops in a specific battle at all levels from Army to individual soldier.

- German- defeat the Allied landing in Western Europe
- Hold Italy
- Until new weapons, in development, will turn the tide of war.
- Not logical, but...

- USSR- Put heavy diplomatic pressure on the Western Allies so they keep the wartime promise of invading Europe.
- 1942- Sledgehammer broken promise
- 1943- Roundup broken promise
- 1944???
- The war is being won by the blood of the Red Army.
- Running low on manpower reserves.

- USA- Invade Northwest Europe thus helping the Soviets
- Fastest and cheapest means of achieving national policy objectives.
- Avoid British entanglements in peripheral areas (Greece) other Med options (over commitment in Italy)
- Avoid forcing the USSR to seek alternative peace with Germany

# Friction of War 1942 Considerations that effected Overlord

- US Navy and public want Pacific First
- US Army OPD- 1st priority to keep USSR in war as Allied power, Operation Sledgehammer, Roundup
- USSR- wants real 2nd Front Yesterday
- UK- Med or peripheral strategy
- UK- reasons for peripheral strategy
- Lack of US readiness
- Difficulty in maintaining large field armies
- Australia and NZ demand return of troops
- They demand US take up security

#### US Problems 1942

- Army planners
- "Must haves" Maintaining the UK and Soviet Union, and security of Middle East, India
- Subsidiary "highly desirable" security of Alaska and supply line to Australia, Burma
- Minimum of forces for the Pacific,
- Maximum effort in Europe
- Australia demands protection with bulk of active forces in the Middle East, India and Malaya, helps the Navy argument.
- American public wish for action against the Japanese
- First Army overseas forces go to Pacific

# Global War affects Normandy

- Secondary Theater
- US Navy views as a Navy show, Army has Europe
- MacArthur
- Midway does not stop Japanese offensives
- Rough parity
- Keeping China communications open after close of Burma Road
- Jap move in Solomon Islands to cut off Australia, NZ
- US waiting for supremacy while first war ordered ships arrive (Essex Class carriers mid 1943)
- British are opposed to increasing US force and resource drain to the Pacific.

#### **American Plans**

- Army wants to buildup in Europe
- Sledgehammer 1942
- Roundup 1943
- Navy wants more resources for Pacific, at least to take limited offensives
- Rainbow Five WPL-46
- Current plan called for defense of Western
   Hemisphere. King modified to include loc to Australia

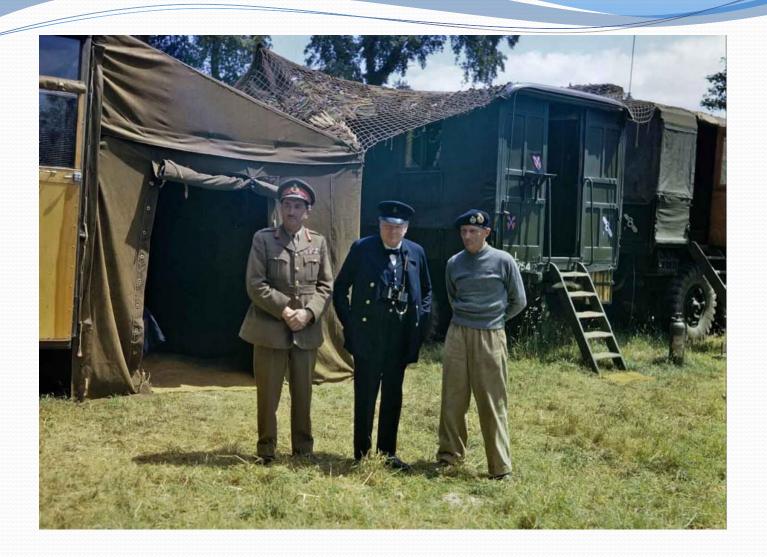
#### Battles within the US

- US Army vs US Navy/MacArthur- battle for resources.
   Each side doesn't hesitate to make political end run to get their wishes.
- The material advantages possessed by the US, that people see in hindsight do not exist until mid 1944
- Supplying British and Commonwealth, Chinese, Soviets as well as our own forces.
- Fighting a global war, for which we were not prepared.

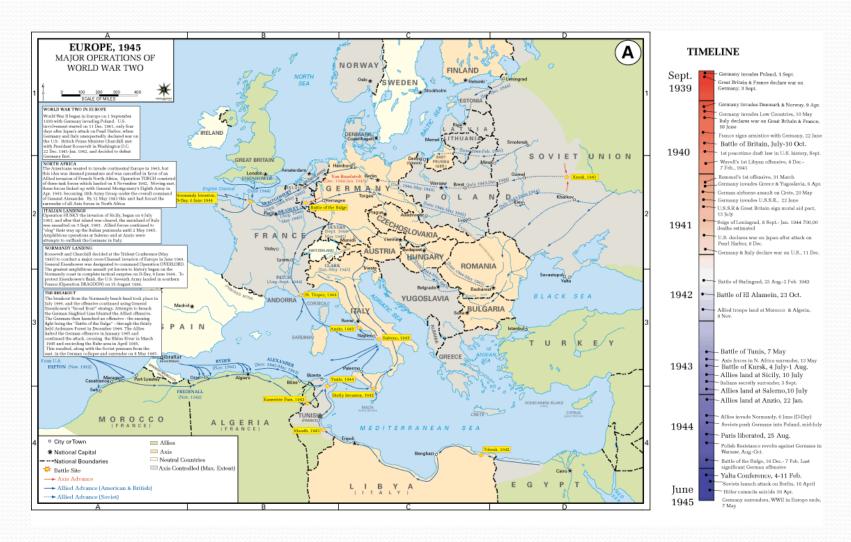
- UK- Maintain the Empire- India, Suez Canal, influence in the Balkans (Greece)
- Fear of what US withdrawal from Europe will mean after World War 2
- Rebuilt France
- The British could steer NW Europe invasion in 42 and 43 because they would have provided the bulk of the initial forces. Not so in 1944.

#### **British Reluctance**

- The Americans had to bully Churchill and the British Chief of Staff Sir Alan Brooke into the idea of invading Northwest Europe
- The British were becoming upset that they were no longer the drivers of Allied strategy
- The Soviets were demanding a second front since 1941.



#### **British Alternatives**



# Why?

- Britain was suffering from manpower shortages.
- Troops in the Med, India, and in Europe
- They were concerned about a repeat of World War One
- They did not think we were capable
- Britain almost always fought their wars on the periphery.
- Opposed early American plans for the cross channel invasion because they would have been mostly carried out with British troops
- Churchill's experience from Gallipoli.

# Why no invasion in 42 or 43?

- Not enough troops
- Still fighting the Battle of the Atlantic
- We could not help supply the Red Army, fight the Japanese, supply the British, ramp up naval production, etc and create a force strong enough to stay on the continent.
- Our Army was not ready

## American Perspectives

- Concerned about the British propensity for frittering away troops and resources in secondary theaters.
- Opposed to using US troops to prop up British imperial ambitions
- Operation Sledgehammer- 1942
- Operation Roundup- 1943
- Not so thinly veiled threats to shift resources to the Pacific

#### Tehran Conference 28 Nov to 1 Dec 1943



#### COSSAC- March 1943

Planning Hq for proposed operations in Northwest

Europe

Frederick E Morgan

Ray Barker





## Planning

- Operation Cockade- will become Fortitude
- Operation Rankin- in case of imminent German collapse
- Operation Overlord
- Only 4 possible landing places
- Pas de Calais
- Normandy
- Cotentin
- Brittany

## Normandy

- Why did the Allies choose Normandy? The Brittany coasts are too far away from England, the grounds in Holland are flooded and do not allow the installation of a solid beachhead, the currents of the Belgian coasts are very strong and thus dangerous, and the Germans await the Allies in the Pas-de-Calais area.
- The Norman coast is mostly composed of sandy beaches. The composition of the Norman beaches is relatively close to those that can be find along Western England. Thus, the soldiers can train on the other side of the Channel and they can even test the resistance of the tanks on this particular type of sand.
- Within air range, which would eliminate anything south of Brittany

#### Plans for Invasion

- Planning began under COSSAC British General
   Frederick Morgan, and American Brig Gen Ray Barker
- Only 4 possible sites- Brittany, Cotentin, Normandy,
   Pas de Calais. 1st 2 quickly rejected.
- Calais rejected as being most fortified and that terrain (rivers and canals) made exploitation more difficult
- They came up with a 3 beach plan. After Eisenhower takes over, Monty expands it to 5. At the expense that Southern France landing was made smaller and postponed for a month and half.

# US Army OPD Study Dec 43

- US forces not strong enough at present to defeat Germany alone.
- USSR cooperation is necessary for defeat of Germany
- After the defeat of Germany, USSR will be in position to impose its will in Central and Eastern Europe.
- Russia needed to enter war against Japan to minimize losses of US and UK

## Strategic Bombing Europe

- British area bombing at nightdesigned to create fear among civil populace. Civil population was the target
- The ultimate aim of an attack on a town area is to break the morale of the population which occupies it. To ensure this, we must achieve two things: first, we must make the town physically uninhabitable and, secondly, we must make the people conscious of constant personal danger. The immediate aim, is therefore, twofold, namely, to produce (i) destruction and (ii) fear of death
- US- Precision Bombing during the day
- Only 20% actually hit targets
- Ineffective at hurting German industry
- Effective at disrupting oil production, but costly.
- Effective at disrupting transportation.
- Where it was very successful was in destroying combat power of Luftwaffe by direct confrontation.

## **Problems**





# German weapons



























#### French tanks used by the Germans in Normandy







## Allied AFV's



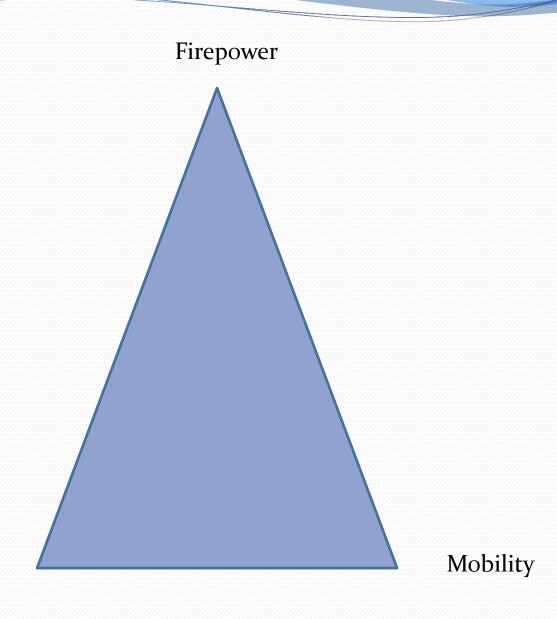






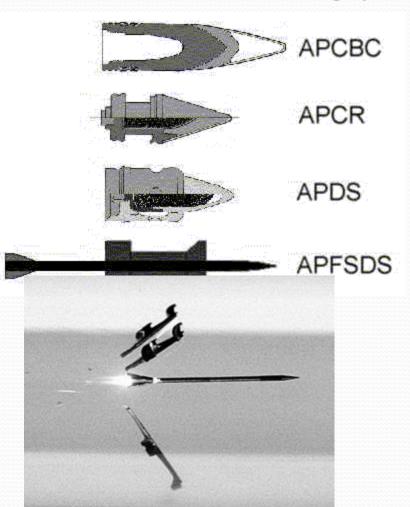






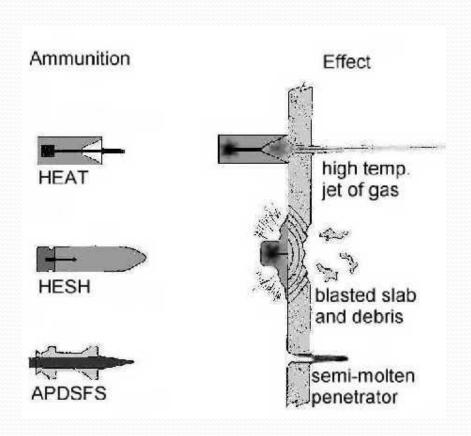
Armor

## Kinetic Energy Anti-Armor

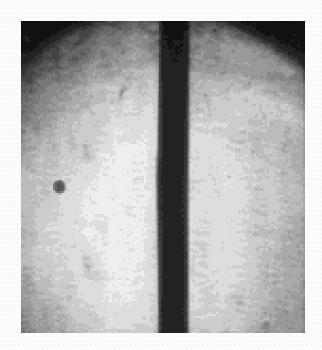


- APCR-US-HVAP
- Other types
- APC
- APCNC
- APHE
- Tungsten-Carbide
- German's primarily used APC and APCBC because of Tungsten shortages

## Chemical Energy Anti-Armor



Spalling



#### Increases in Armor Protection

- Sloping
- Face Hardened Armor
- RHA
- Spaced Armor
- Early use of Composite Armor in T-95-Fused Silica glass
- Molybdenum
- Tungsten
- German's =brittle armorpossible sabotage by slave labor?









#### **US Armor Doctrine WW2**

- Tanks- for exploitation role
- Tank Destroyer's-mobile formations of self propelled and towed anti-tank guns to be deployed en masse to stop enemy armor penetrations
- Reality
- Flawed concept
- Severe bureaucratic disagreements between Ordnance Corps, Army Ground Forces, Armored Force, and field commanders (especially from 1944 onwards)
- Failures of US tank design by 1944

## **Army Ground Forces**

- Lesley J. McNair
- Army Ground Forces
- Roughly equivalent to
- FORSCOM
- Battle worthiness
- Battle need
- Tyranny of Time
- Wished to avoid Ordnance's "mad scientist disease"
- Artilleryman's bias
- Not forward thinking on Armored Warfare



#### Ordnance

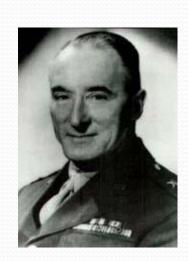
- MG Gladeon Barnes
- Technical Division
- Limited experience with tank development
- Excellent with artillery
- Often would spend too much effort on pet projects such as the T-23
- Failed to organize organizational structure dealing with foreign technical developments that could organize and disseminate information to interested parties.



#### **Armored Force**

- Created 1940
- Jacob Devers
- Alvan C. Gillem
- Saw need for 76mm-
- 90mm guns in early 43
- "British view"
- Downgraded by McNair 1944
- "best anti-tank weapon is a tank"
- Fought tanks being deployed in separate battalions





## Tank Destroyer Force

- Andrew Davis Bruce
- Enamored with speed
- At the expense of firepower
- M<sub>1</sub>8 Hellcat
- McNair towed tank destroyer
- Bruce –self propelled
- TD's vs Armor
- Tanks for exploitation
- Failed concept by early 1943



#### Units in the Field

- 1942 to June 1944- Sherman was adequate
- Not always privy to foreign technological intelligence
- Liked the 75mm for non anti-armor roles which was the most common tank function in practice
- After June 1944 wanted tanks with greater firepower and armor

# Infantry

Wished to armor for infantry support



## **Army Service Forces**

- Roughly equivalent to CASCOM
- Did not favor supplying more than a few calibers of tank ammo
- Tank transmissions
- Fought increases in armor
- Fought tank armament increases

## The British Army

- The most experience in dealing with German armor
- Largely ignored by elements in the US high command
- Saw the early need to improve firepower and protection

#### M4 Sherman

- Main variants
- M4-M4a1-Continental
- M4a2-Diesel
- M4a3-Ford GAA
- M4a4-Chrysler



- Incremental improvements from 1942-1944
- Yet still essentially same tank until advent of 76mm

#### 76mm gun armed Sherman & other developments

- Slow development (battle need) until 1944
- McNair viewed the 76mm as a TD weapon during all of 1942 and most 1943
- Lack of large scale combat experience until June 6, 1944
- Early Sherman's were prone to fire- improvements in ammo stowage
- Appliqué armor

## Experimental US tanks







#### T28 (105 mm Gun Motor Carriage T95)



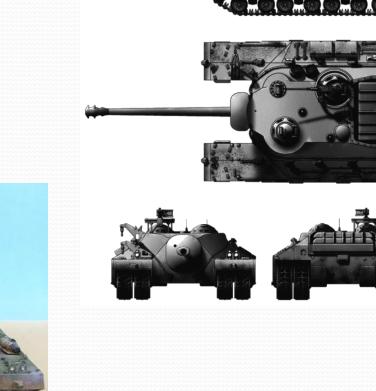
Super Heavy Tank Prototype (rather an Assault Gun)



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#### US Tank Development until Dec 1944

- 1942-1943
- Sherman excellent tank design in 1942
- Tiger's were seen in few numbers
- Sherman Mechanically reliable
- Jacob Devers pushes for 90mm armed T-26
- McNair Rejects, he does accept battle need by end of 43 for 76mm Sherman
- Marshall overrules McNair
- Army Service forces tries in vain to kill t-26
- 1944
- TD Force to receive 90mm gun on m36
- 76mm Sherman begins production by early 1944, but is rejected by field commanders for immediate service
- US Army shocked by casualties after Normandy landings and vulnerability of the Sherman

- 76mm gun found inadequate with APC against Tiger and Panther, penetrated only with rare HVAP (APCR)
- 17 pounder found adequate
- After Cobra the vast majority of us tank encounters are with STUG III's and Pz 4's

# **US Tank Destroyers**







## Late war developments





# US Army tank combat

- Ballistics Research Lab Reports
- Very few large tank battles
- Single most important factor was who fired first- when defender's fired 1<sup>st</sup> they inflicted 4.3 time the number of defender casualties
- Technical inferiority mattered less than who fired 1<sup>st</sup>
- The average engagement was 9 American tanks to 4 German
- There was 5 to 1 kill ratio in favor of Panther or Tiger (Belton Cooper)
- Up until Bulge the Pz 4, Stug III, and Pak 40 were the most numerous opponent

- White Report
- Questioned the Tank/TD doctrine
- Use of WP and maneuver
- American tankers "willingness" to take losses in order for maneuver to work

# Final thoughts

- Sherman, by 1944 lacked firepower and protection. However, Sherman was not the death trap
- Sherman was inferior in firepower and protection to Tiger and Panther
- Most Sherman combat did not involve fighting tanks
- McNair's Battle need was too reactionary
- McNair's battle worthiness ensured a mechanically reliable vehicle in comparison to Tiger and Panther

## **British Solution**



# **British Armor**





# German Infantry

- In comparison similar German units will have more machine guns, almost twice the number. More submachine guns, twice the number and heavier mortars.
- Man for man in comparison German formations had more firepower than their American opponent.
- German's, and later Allies, understood that a squad's firepower was its machine gun.

# Selected Weapons Comparison Rifles

## American M-1 Garand Specifications

Weight 9.5 lb (4.3 kg) to 10.2 lb (4.6 kg) Length43.6 in (1,107 mm)Barrel length24 in (610 mm)Cartridge.30-06 Springfield (7.62x63mm);

ActionGas-operated, rotating boltRate of fire16-24 rounds/min effectiveMuzzle velocity2,800 ft/s (853 m/s)Effective range500 yd (457 m)[2]Feed system 8-round "en bloc" clip internal magazineSightsAperture rear sight, barleycorn-type front sight



- German Karabiner 98K
- Specifications
- Weight3.7-4.1 kg Length1110 mm
   Barrel length600 mm Cartridge7.92x57mm
   Mauser ActionBolt-Action
   Muzzle velocity</u>760 m/s Effective range500 m (547 yd) (with iron sights)
   800+ m (875 yd) (with optics)Feed system5-round stripper clip, internal magazine



# Selected Weapons Comparison Submachine guns

### American Thompson

- Specifications
- Weight10.8 lb (4.9 kg) empty (M1928A1)
  10.6 lb (4.8 kg) empty (M1A1)Length33.5 in (851 mm)
  (M1918A1)
  32 in (813 mm) (M1/A1)Cartridge.45 ACP (11.43 × 23 mm) or 9 mm Parabellum (9x19mm)ActionBlowback
  Rate of fire600-1200 rpm, depending upon modelFeed system20 or 30-round detachable box magazine
  50 or 100-round drum

# So or 100-round arun) And the first first

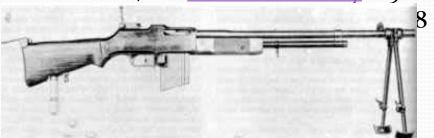
#### German MP-40

- Specifications
- Weight4 kg (8.8 lb)Length833 mm (32.8 in)
  630 mm (24.8 in) w/stock
  foldedBarrel length251 mm
  (9.9 in)Cartridge9x19mm Parabellum
  Actionblowback, open bolt Rate of fire500
  rounds/minMuzzle velocity~380 m/s
  (1,247 ft/s)Feed system32-round detachable box
  magazineSightsHooded blade front, fixed and flip-up
  U-notch rear



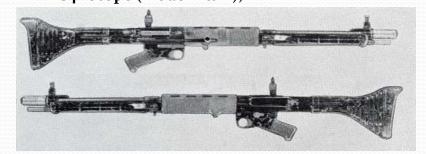
# Selected Weapons Light Machine Guns

- American BAR
- Specifications
- Weight7.2-8.8 kg (16-19 lb) emptyLength1,214 mm (47.8 in)Barrel length610 mm (24 in)Cartridge.30-06 Springfield (7.62x63mm)ActionGas-operated, open boltRate of fire300-650 rounds/minMuzzle velocity805



#### German FG-42

- Used by the Fallschirmjager
- Specifications
- Weight4.5 kg (9.9 lb) (Model I),
  4.9 kg (10.8 lb) (Model II)Length937 mm (36.9 in) (Model I),
  1,060 mm (41.7 in)(Model II)Barrel length502 mm (19.8 in)Cartridge7.92x57mm MauserActionGas operatedRate of fire900 rounds/min (Model I),
  600 rounds/min (Model II)Muzzle velocity760 m/s
  (2,493 ft/s)Feed system10 or 20-round detachable box magazine)SightsDiopter Open Sights,
  ZFG42 Scope (Model I & II),



# Selected Weapons Light Machine Guns Cont.

#### American M1919

- Specifications
- Weight31 lb (14 kg) (M1919A4)Length
- 48 in (1219 mm) (M1919A4)
- 53 in (1346 mm) (M1919A6)
- Barrel length24 in (609 mm)Cartridge
- <u>.30-06 Springfield</u> (U.S.)
- 7.62 x 51 mm NATO (U.S.)
- .303 British
- 8 mm Mauser
- <u>ActionRecoil-operated</u>/short-recoil operation<u>Rate of fire</u>400–600 <u>round/min</u>Effective range1,500 yd (1,370 m) (maximum)Feed systemas o-round belt



#### German MG-42

- Specifications
- Weight11.57 kg (25.5 lb)Length1220 mm (48 in.)Cartridge7.92x57mm MauserActionRecoiloperated, roller-locked boltRate of fire1200 rounds/min (varied between 900 and 1,500 rounds/min with different bolts)Muzzle velocity755 m/s (2,475 ft/s)Effective range1000 m (1,100

yd)**Feed system**50 or

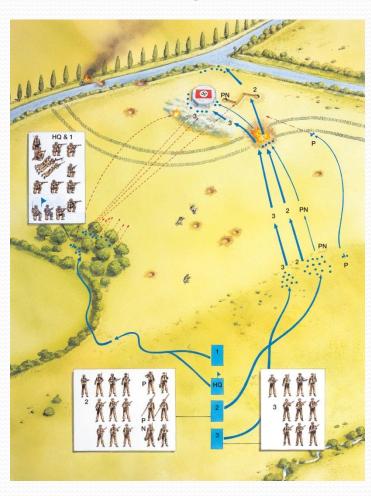


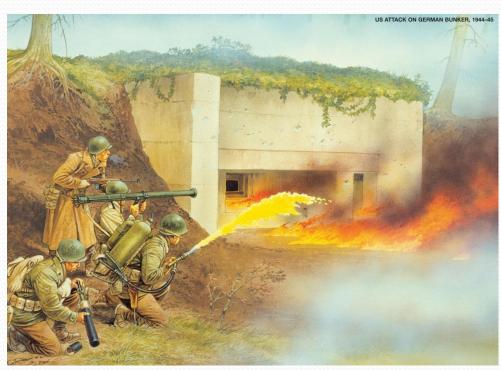
# Selected Weapons Misc.

- German Sturmgewehr 44, the 1<sup>st</sup> Assault Rifle
- Specifications
- Weight5.22 kg (11.5 lb)Length940 mm (37 in)Barrel length419 mm (16.5 in)Cartridge7.92x33mm KurzActionGas-operated, tilting boltRate of fire500-600 rounds/minMuzzle velocity685 m/s (2,247 ft/s)Effective range300 metersFeed system30-round detachable box magazineSightsadjustable 800meter sights with Rear: V-notch; front: ring with vertical post

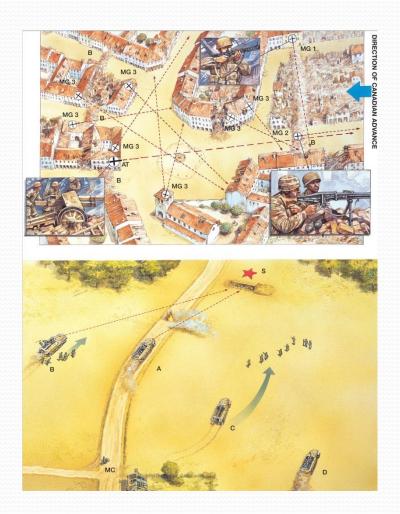


# Infantry in attack





## Infantry in Defense and counterattack



# Aircraft of the Normandy

Campaign













## **British Aircraft**

Typhoon

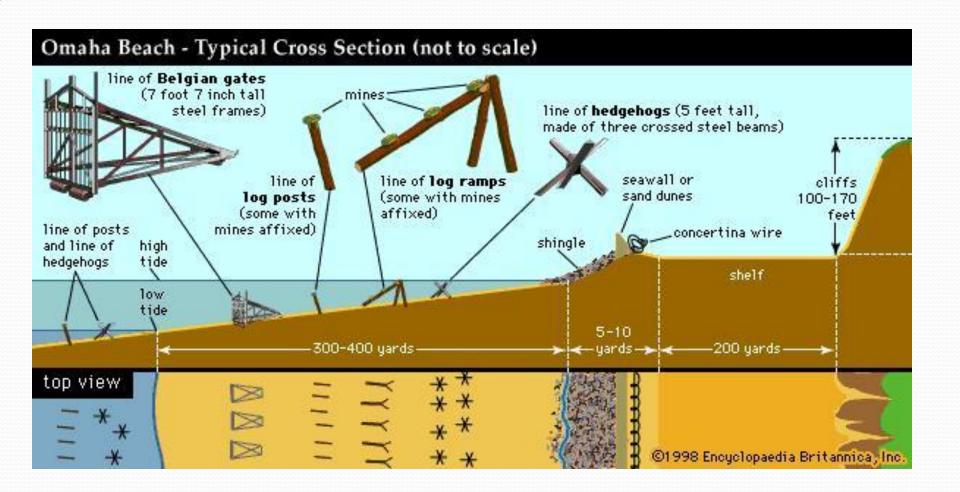


Tempest

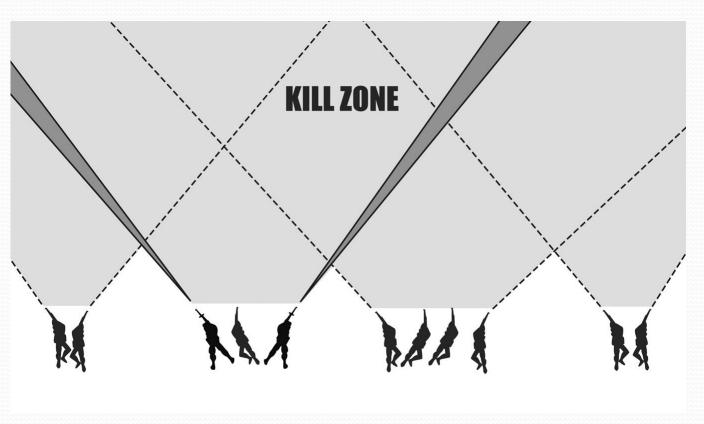






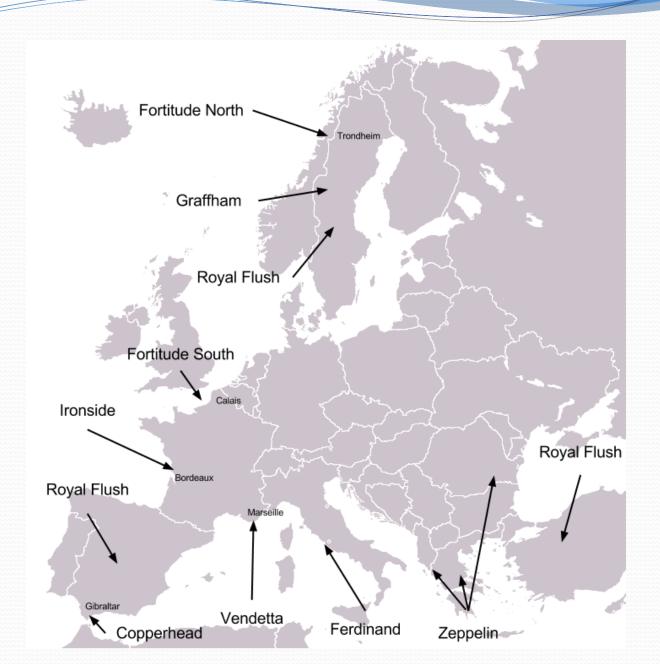


# Kill Zone



# **Operation Bodyguard**

- Operation Fortitude (North and South)
- Operation Quicksilver I VI (South) and Operation Skye (North)
- Operation Ironside IRONSIDE was the threat to the Bordeaux area during NEPTUNE.
- Operation Titanic (I IV)
- Naval Deceptions: Operations Taxable, Glimmer and Big Drum
- **Operation Paradise** (One Five) PARADISE was the dummy lighting of ports, beaches, and bridging operations on the English east coast in tactical support of NEPTUNE.
- DOUBLE CROSS
- Operation Zeppelin
- Operation Royal Flush ROYAL FLUSH was a Diplomatic plan, to provide for taking advantage of expected changes in Neutral attitudes after Operation NEPTUNE, by pressure upon Sweden, Spain and possibly Turkey.
- Operation Vendetta VENDETTA was a threat against Southern France from North Africa during NEPTUNE.
- Operation Graffham GRAFFHAM was a diplomatic threat to reinforce FORTITUDE NORTH, with negotiations for Swedish airfields and transport facilities.



# Fortitude South-Quicksilver

Patton to lead FUSAG





# **Buildup for Overlord**

- Operation Sledgehammer 1942
- Operation Roundup -1943
- Exercise Tiger, Slapton Sands, attack by a German E-Boat squadron during large scale maneuvers. April 28, 1944
- 638 men killed, most drowned
- 10 officers with D-Day knowledge were missing.
- 60 American Divisions
- 18 British and Canadian Divisions in UK



# **Landing Craft**

LCVP-Higgens Boat aka LCA



**Landing Craft Infantry- LCI** 



# **Landing Craft**

#### **Landing Ship Tank-LST**



**Landing Craft Mechanized-LCM** 



# GMC DUKW 353



# Hobart's Funnies- ARC





## **AVRE AV Royal Engineers & Crocodile**

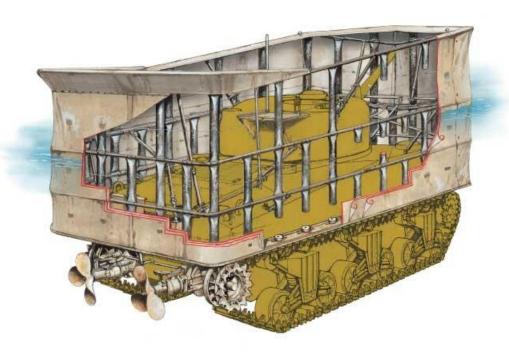




# Sherman Flail or Crab



# Sherman DD's





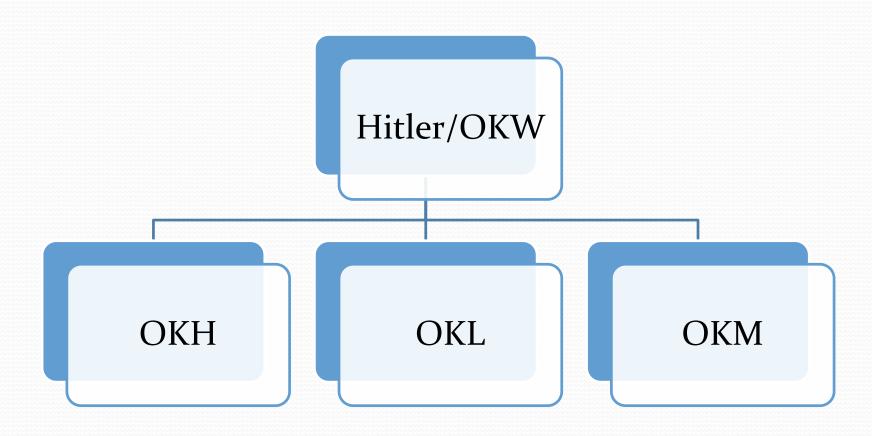




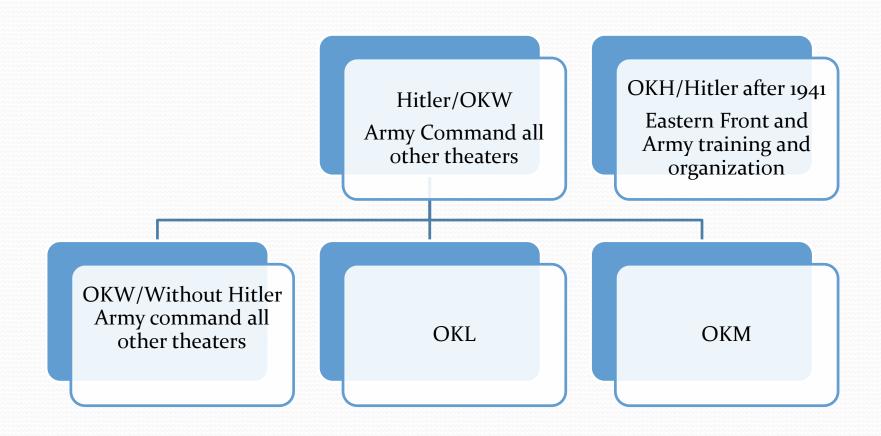
# Hitler's style of governance

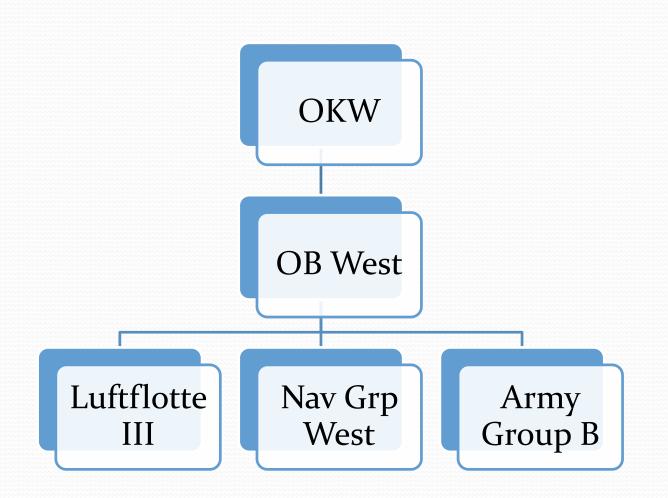
- Divide and rule- Hitler often goes against the normal flow or chain of command
- Will give authority to one department or person even if that task was originally in another agency or department.
- Duplication of effort
- Stupidity or Hitler was attempting to minimize the possibility that another individual would rival him in power.

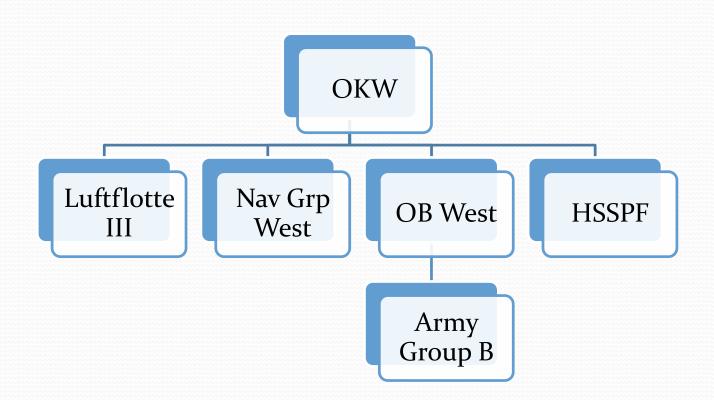
# German High Command in Theory



## German High Command in Practice









# Allied











### German







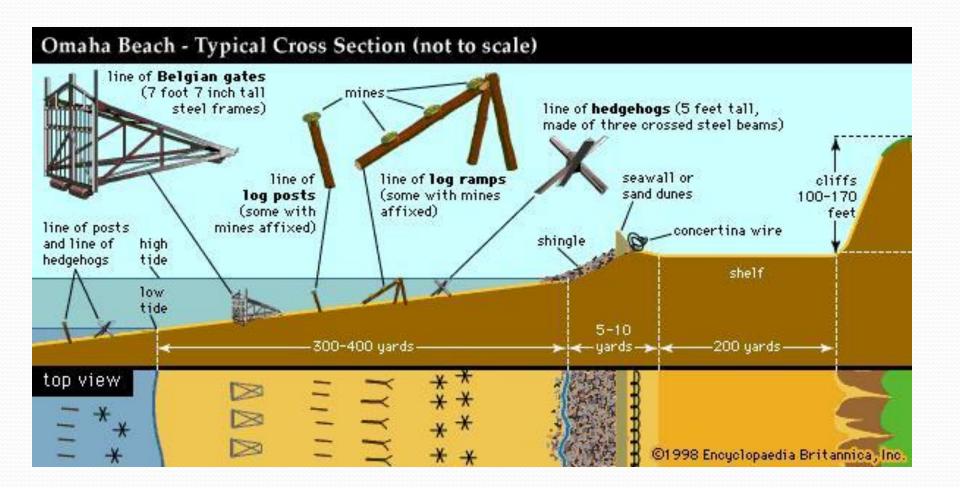


Sperrle Kranke Dollman

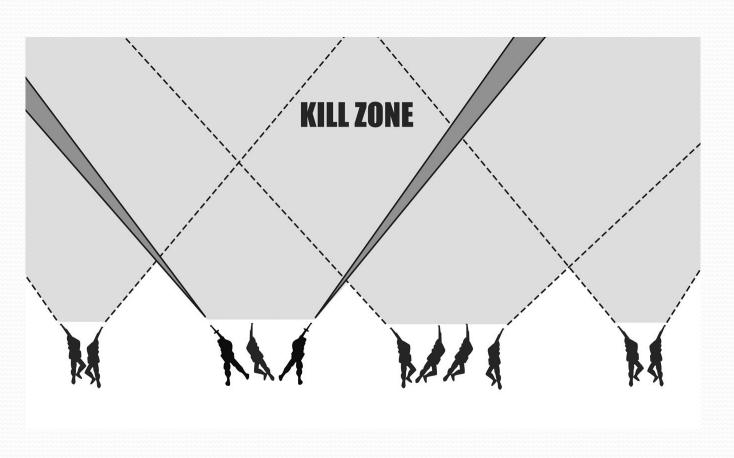
Bundesarchiv, Bild 1011-300-Foto: Speck | 30. Mai 1944



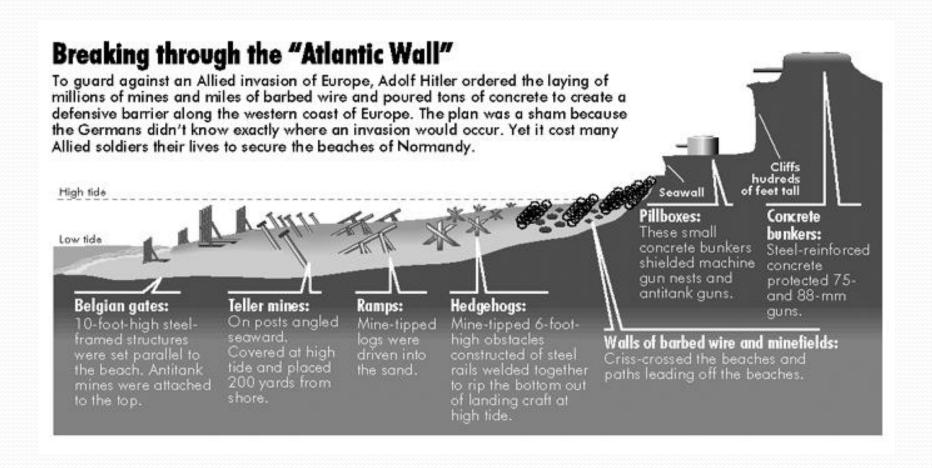




# Kill Zone



#### Beach fortifications



#### Ost Battalions

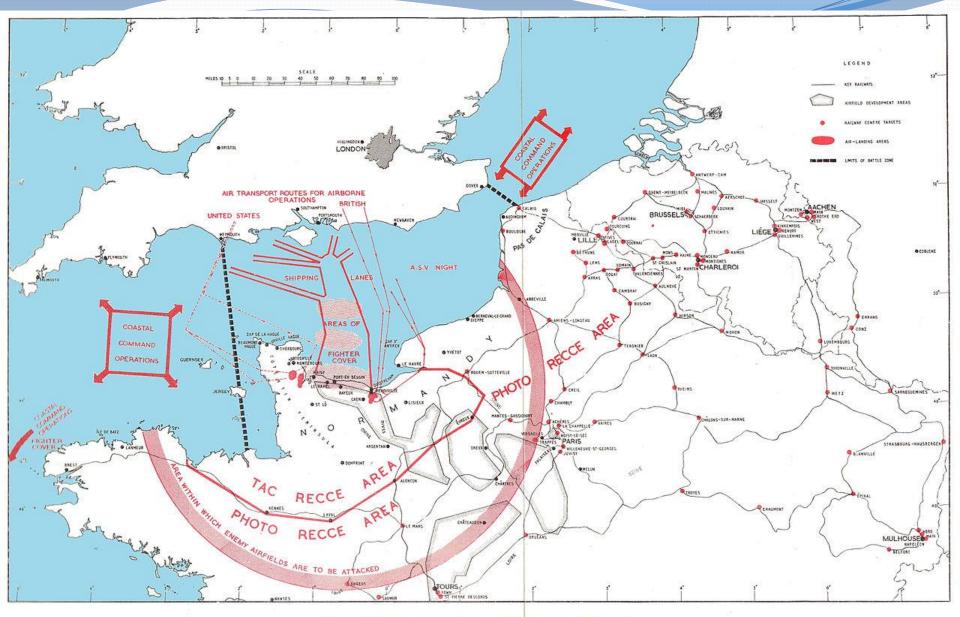
Usually attached to a German formation





#### German Division Guide

- 700 series static divisions
- Panzer, Panzergrenadier Division, Luftlande, Fallschirmjäger usually 1<sup>st</sup> rate though 21<sup>st</sup> Panzer was not rated for Eastern Front
- All other German infantry divisions mixed
- German forces were long a source of replacements for Eastern Front



THE AIR PLAN FOR THE LANDINGS IN NORMANDY, 6 JUNE 1944

#### A word of caution

- Many US Army Armor enthusiasts misuse German Military History.
- Wehrmacht envy
- Used as a font of wisdom-"A storehouse to be looted to justify modern doctrinal concepts"
- An example- the use of the term "Auftragstaktik"mission type orders- giving order for operations
- Not used by the German Army of World War 2
- Created by the postwar Bundeswehr

#### German Practice

- Loose command arrangement
- Commander's intent (Absicht)
- Nature of the task (Aufträge)
- Subordinate would use initiative to create a resolution (Entschluss)
- German subordinate's were given authority to abandon the task, but could never abandon his commander's intent.
   Higher HQ would be informed immediately by necessity.
- If done the subordinate accepted full responsibility
- System was designed to foster initiative and creativity

### German Army

- No set doctrine, system or dogma existed, outside what is already mentioned
- Officer school system accepted the dialectic approach
- Improvisation
- German Army prior to 1945 never adopted set principles of war

## **Practical Applications**

- Must appreciate the German system based upon the political, societal and cultural factors that created it
- Autocratic Prussian model
- National Socialism
- Is it possible to adopt in a more democratic society?
- German Army vs the German Wehrmacht
- Wehrmacht, as opposed to the Army (Heeres) was inefficient lacking unity of command.

### **US Beach Assault**





### **US Beach Assault**





#### Unit sizes and nomenclature

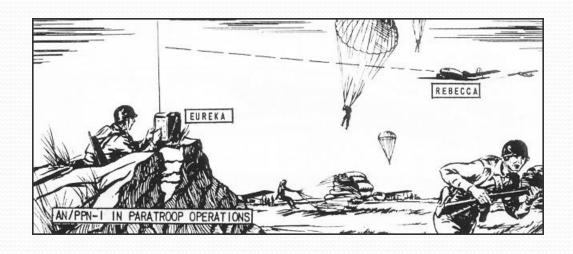
- US, British, Canadian infantry division in WW2 – 15,000 to 20,000 strong on D-Day
- Airborne divisions half that size
- German division less than 10,000
- Squad 9 to 12
- Platoon 3 or 4 squads about
   40
- 3-4 platoons to a company about 125
- 3-4 companies to a battalion about 500
- 3-4 battalions to a regiment about 2,000

- Overlord
- Neptune



### **Pathfinders**



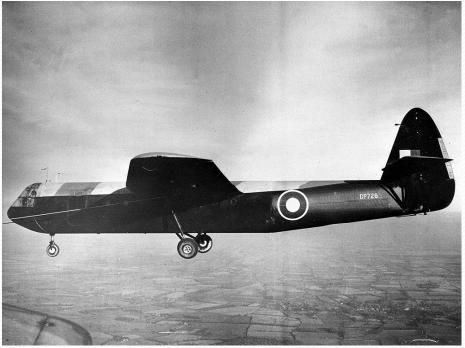






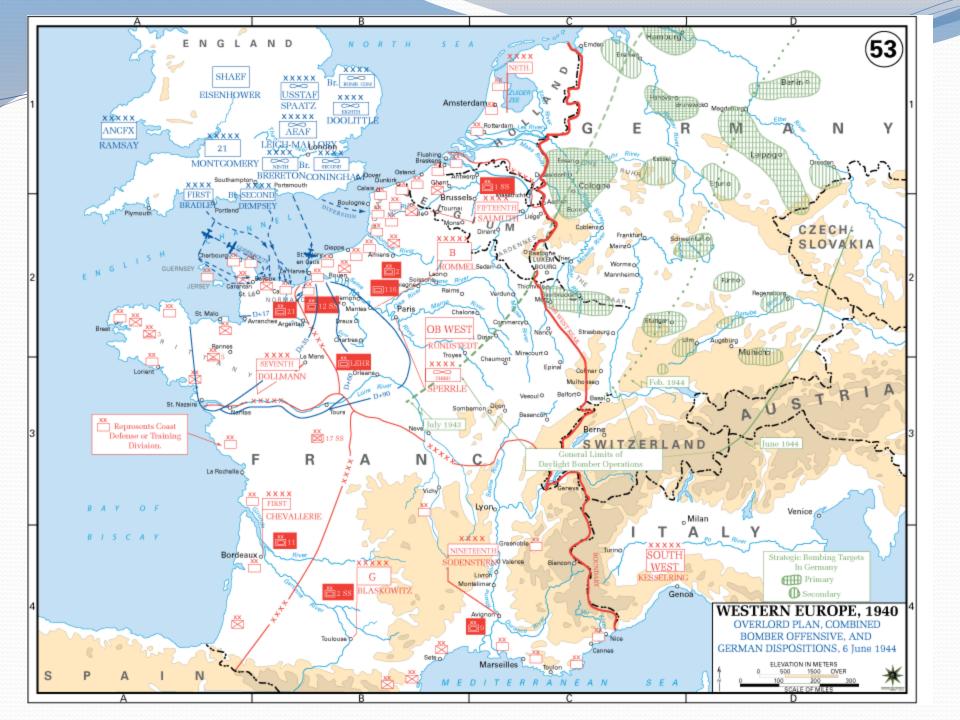
# Air Assault (Glider)

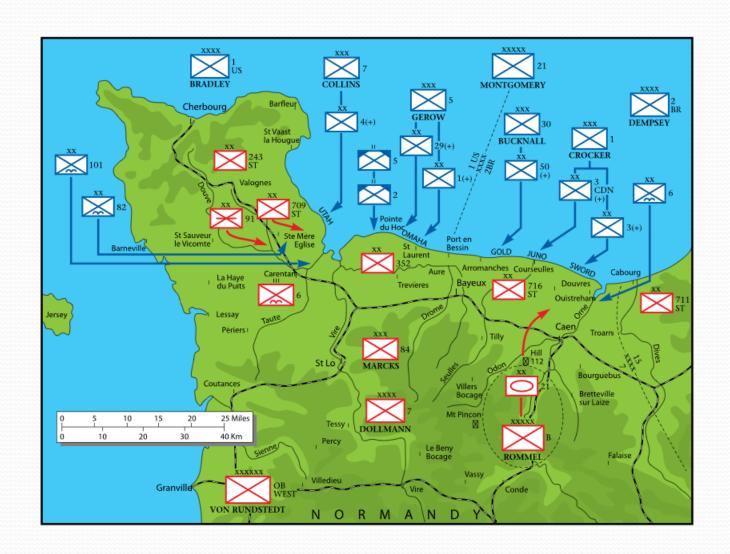




### **D-Day**

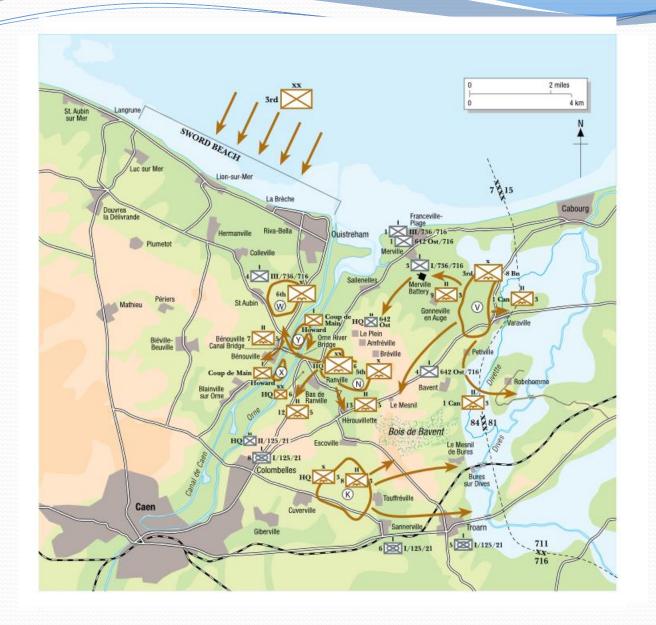
- Required a compromise Navy wanted low tide so that underwater obstacles would be visible
- Army wanted high tide-shorter beach
- Compromise 1-3 hours after low tide
- New Moon light
- June 5-6-7 only moon and tide conditions before July
- A break in the stormy weather allowed a brief window on the 6<sup>th</sup>.



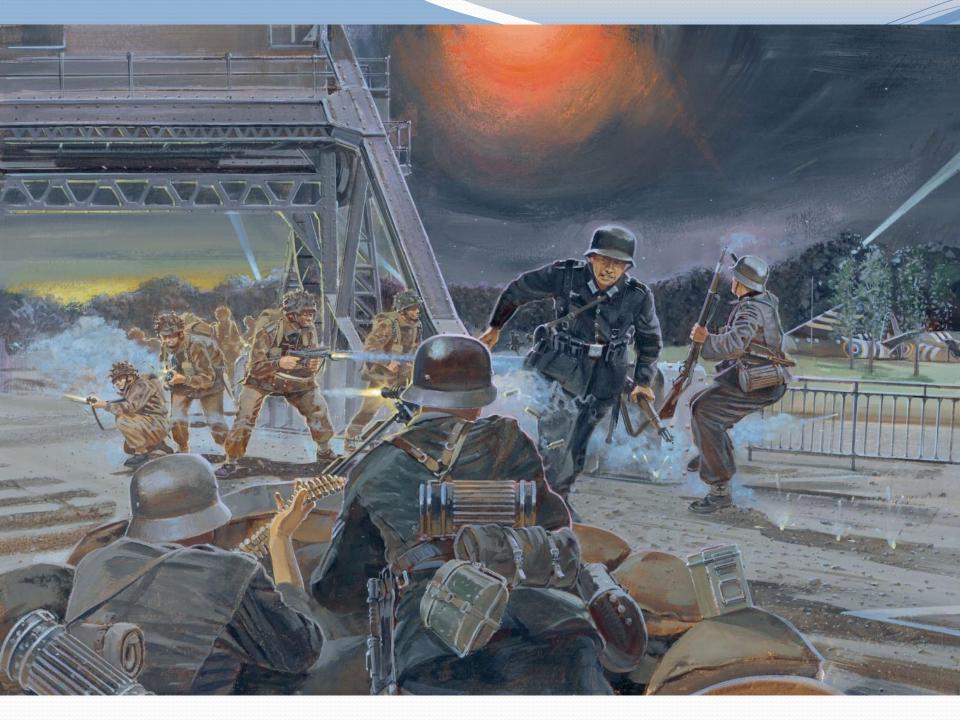


## **Operation Tonga**

- British 6<sup>th</sup> Airborne Division -landings some by gilder others by parachute.
- 12:11am Operation Deadstick-Target Pegasus Bridge over Caen Canal- Bridge over Orne River
- Blow bridges over Dives (pronounced Deeves) River to block German attacks from East
- Take our Mervile Battery

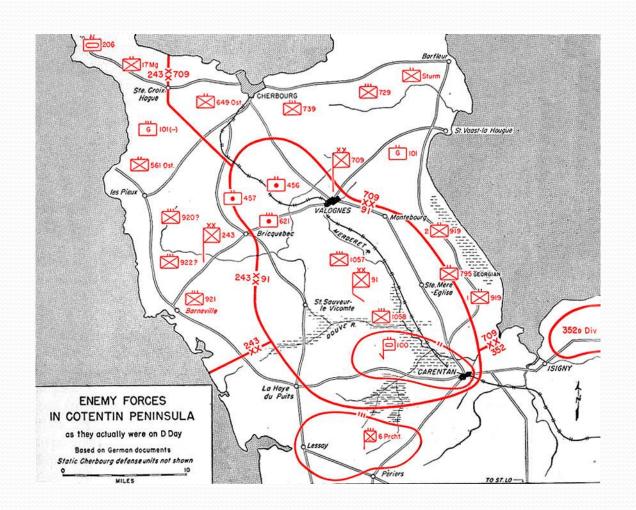


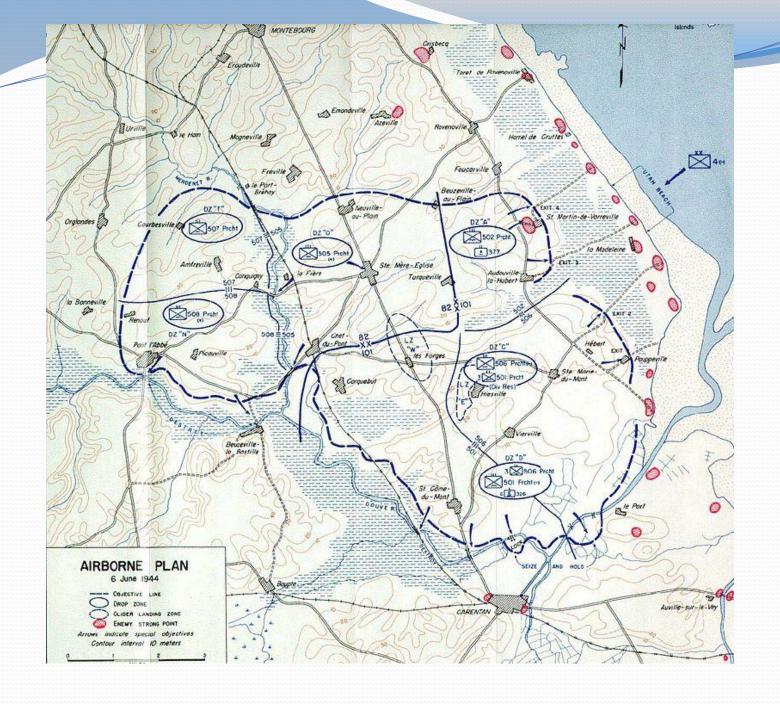


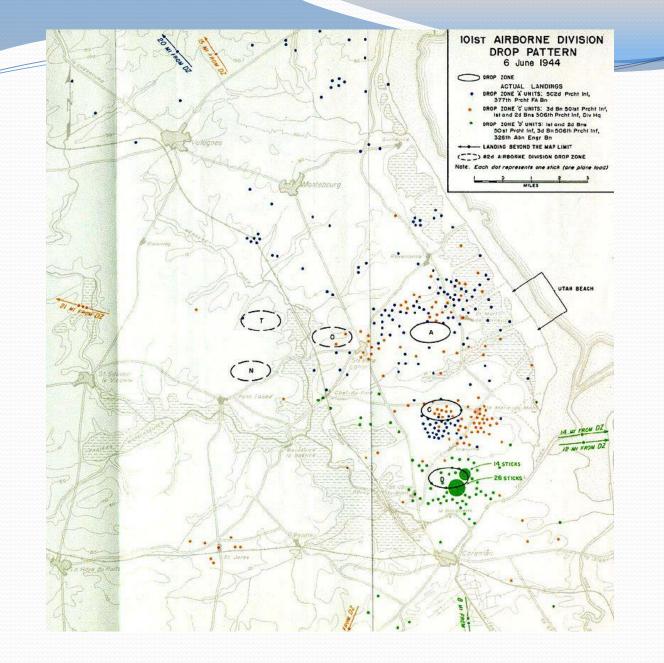


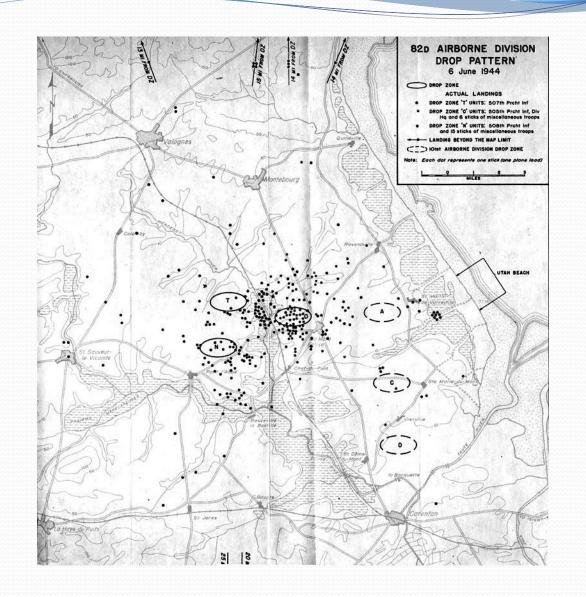
#### **US** Airborne

- 12:15 Pathfinders land
- Mission Albany 101<sup>st</sup> Airborne para
- Mission Boston 82<sup>nd</sup> Airborne para
- Mission Chicago 101<sup>st</sup> Airborne glider
- Mission Detroit 82<sup>nd</sup> Airborne glider
- Mission Elmira D-Day evening reinforcements

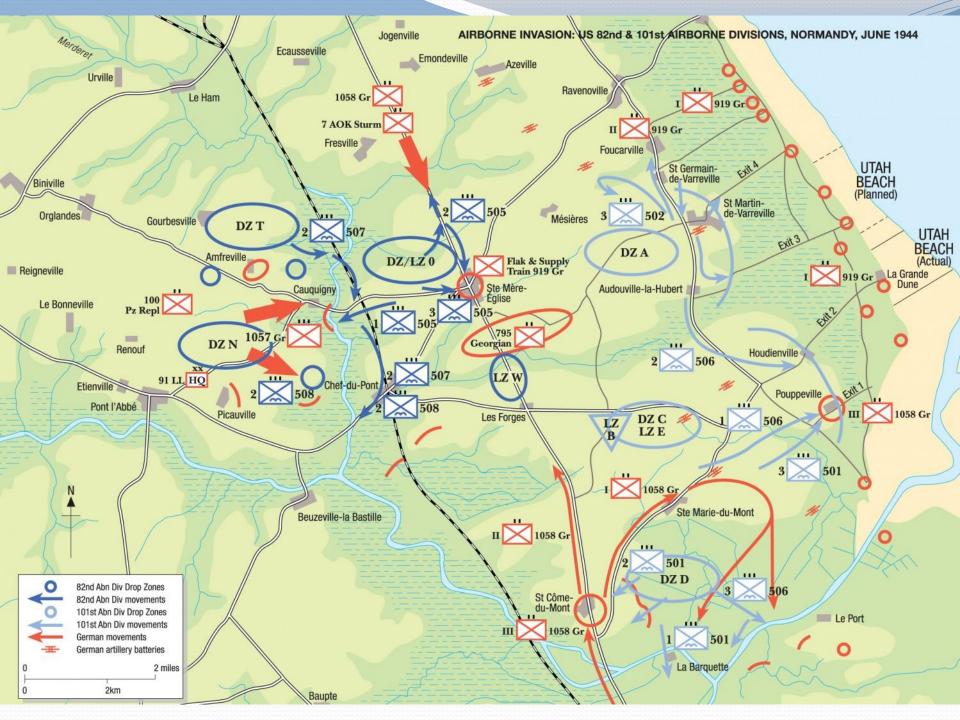








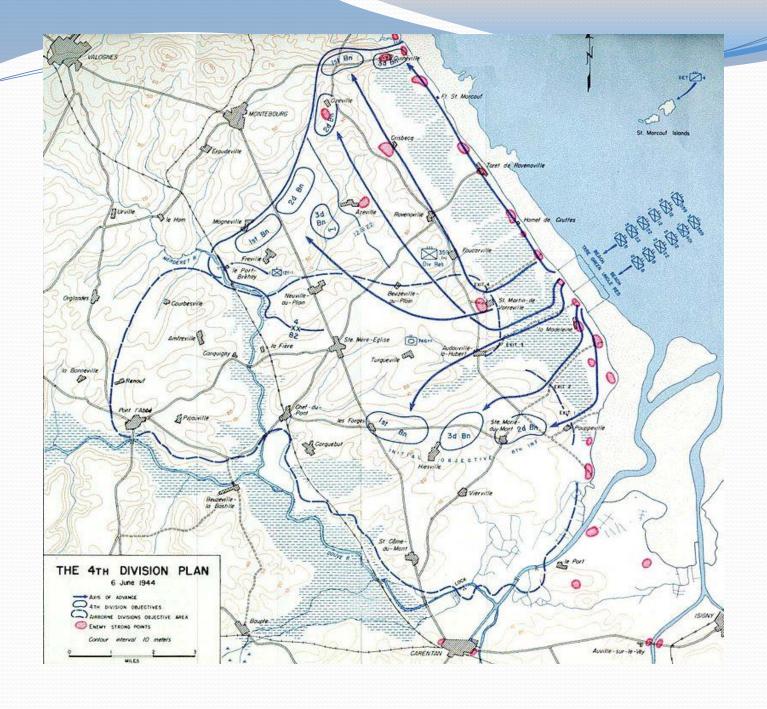


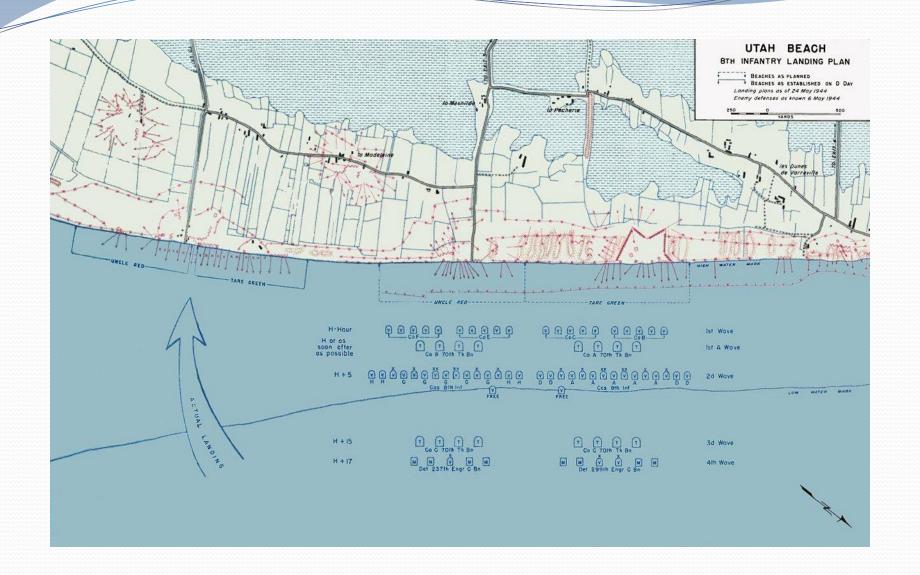


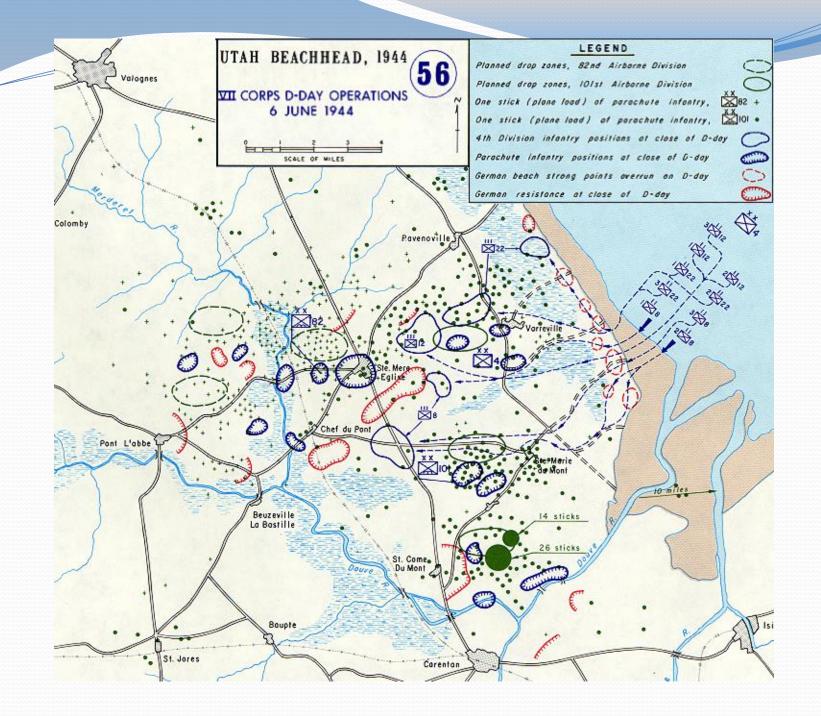


## Utah Beach 06:40









#### British and Canadian Beaches

- Gold Beach-07:25
- Sword Beach- 07:30
- Juno Beach-07:40









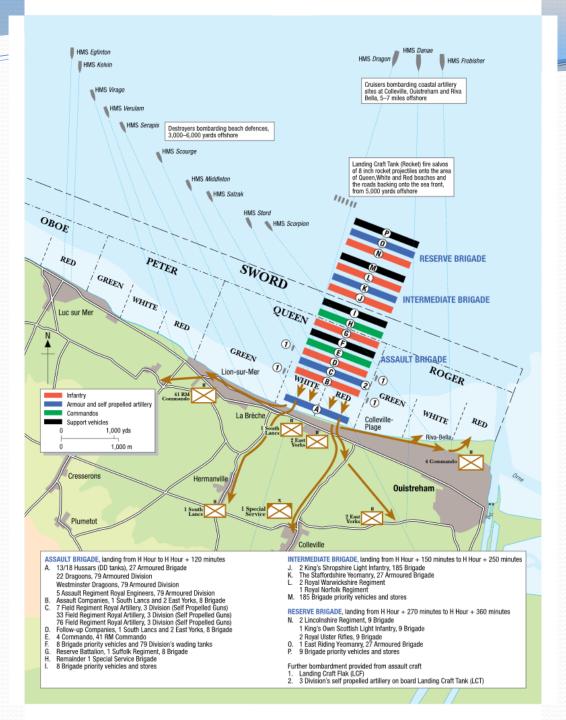


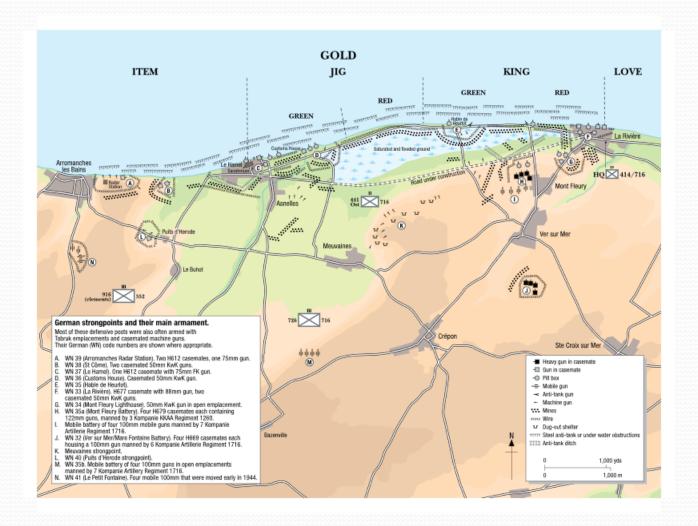


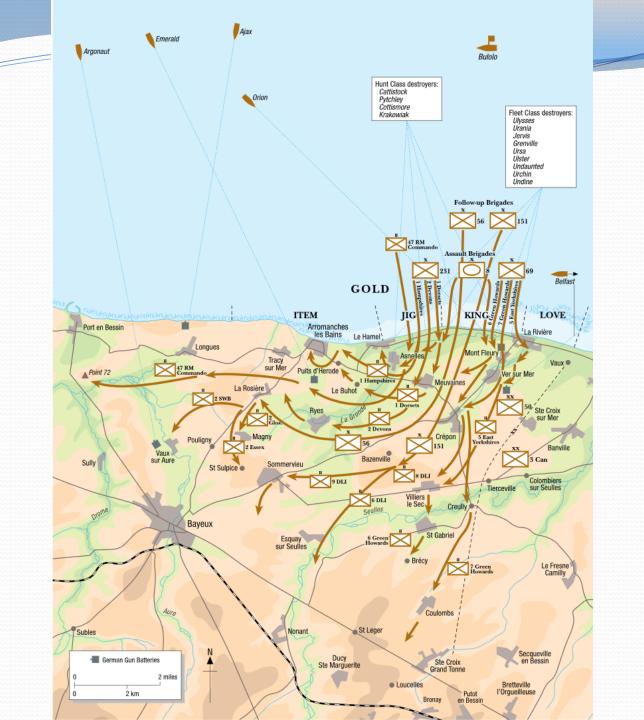


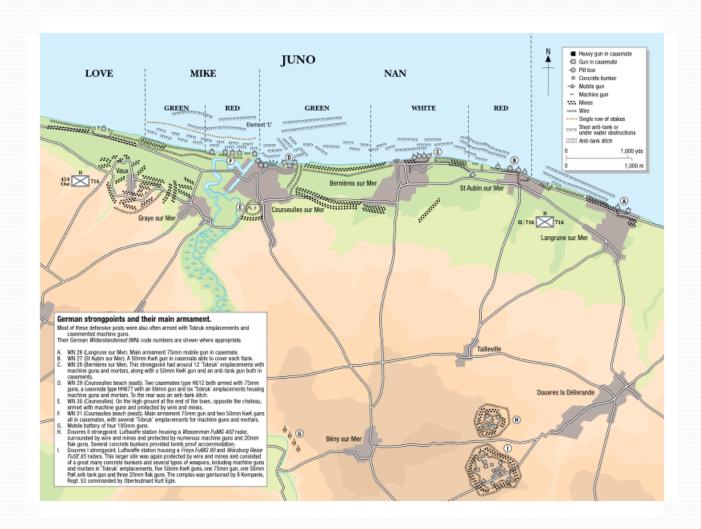


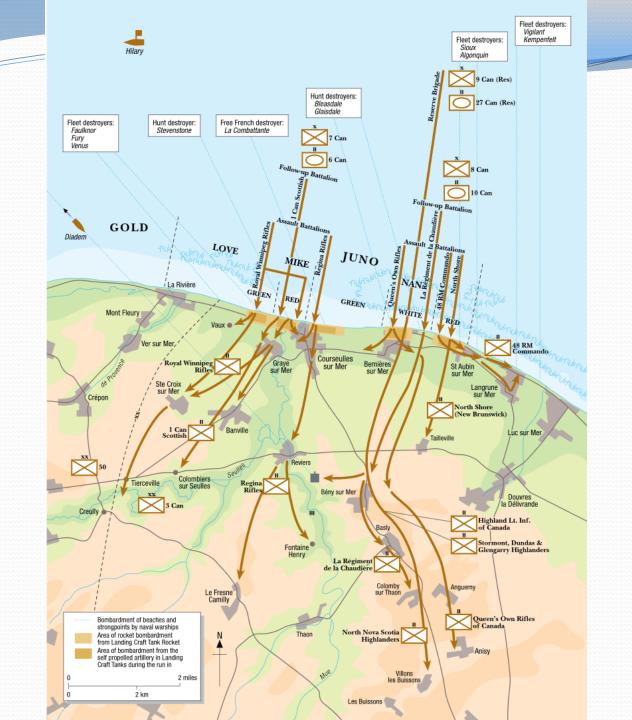












#### A Word about historians

- Toom many historians break the rules for historians by falling in love with their subjects and they lose objectivity.
- Ambrose downplays the ability of the Wehrmacht and overplays the abilities of the American soldier.
- The US and British Army found that if all things were equal the Germans won over 90% of the time in the period of 1944-1945.
- The British high command was well aware of their troops, including junior officers, inferiority to the Germans.
- One of the reasons for the hesitation for Overlord instead of Operation Rankin.

## Col Trevor DuPuy US Army

On a man for man basis, the German ground soldier consistently inflicted casualties at about a 50% higher rate than they incurred from the opposing British and American troops UNDER ALL CIRCUMSTANCES. [emphasis in original] This was true when they were attacking and when they were defending, when they had a local numerical superiority and when, as was usually the case, they were outnumbered, when they had air superiority and when they did not, when they won and when they lost.

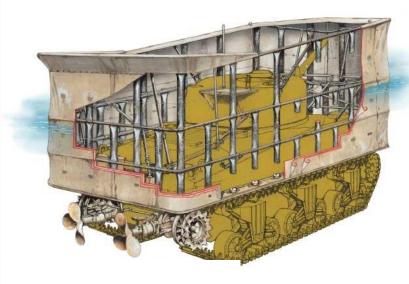
## **Operation Rankin**

- Was the planning for an invasion, actually occupation, of Western Europe if the Germans showed signs of collapse on the Eastern Front.
- British preferred method of moving into Northwest Europe.

## D-Day weapons Mk 1 Rocket Launcher aka Bazooka



## Sherman DD's









## Wading Sherman



# German Forces at Grandcamps (Omaha or near)

- 7<sup>th</sup> Army
- LXXXVI Infantry Corps
- 352<sup>nd</sup> Infantry Division Bernhard Krais
- 914<sup>th</sup> Gren Rgt
- 915<sup>th</sup> Gren Rgt in reserve at St Lo.
- 916 Gren Rgt
- 726<sup>th</sup> Inf Rgt from 716<sup>th</sup> Div
- 439 Ost Btn from 716
- 352 Fus, Panzerjager, Art and Pioneer Btn's





### **US forces for Omaha**

- 1<sup>st</sup> Army
- V Corps
- 1st Inf Div
- 29<sup>th</sup> Inf Div
- Force O
- 2 old BB's, 3 CL's, 15 DD's plus smaller support craft
- Rear Adm John Hall











#### Assault Plan

- Elements Force O to land in first wave
- 4 RCT's by noon
- Force B would land mid afternoon bringing total to 2 reinforced divisions
- Force O war 39,000 strong

### Assault Force O 1st Inf Div

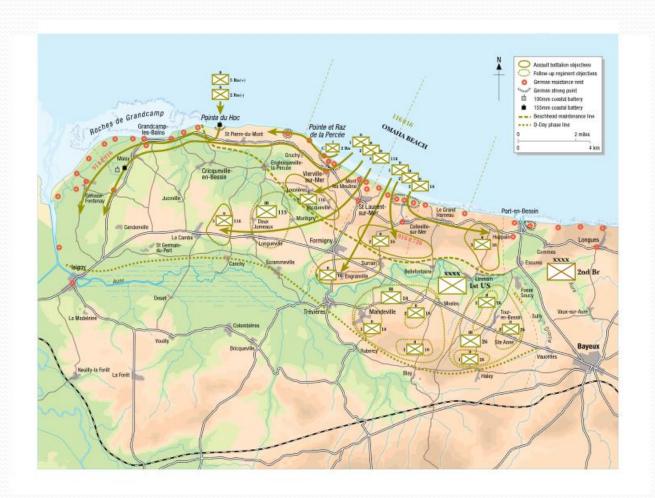
- 16<sup>th</sup> RCT
- 16<sup>th</sup> Inf Rgt
- 741st Tank Bn
- Spec Eng TF
- 7<sup>th</sup> FA Bn
- 62<sup>nd</sup> Arm FA Bn
- 197<sup>th</sup> AA Bn
- 1st Eng Bn
- 5<sup>th</sup> Eng Spec Bde (-)
- 20<sup>th</sup> Eng Com Bn's
- 81<sup>st</sup> Chem Weapons Bn

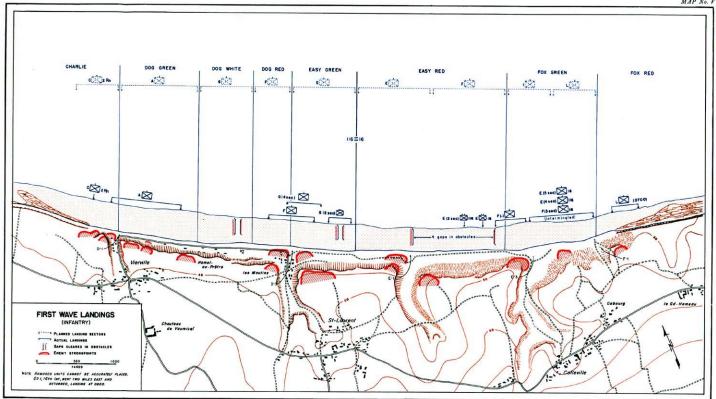
- 18th RCT
- 18<sup>th</sup> Inf Rgt
- 745 Tank Bn
- 32<sup>nd</sup> FA Bn
- 5<sup>th</sup> FA Bn
- 5<sup>th</sup> Eng Spec Bde (-)

## Assault Force O 29th Inf Div

- 116<sup>th</sup> RCT
- 116<sup>th</sup> Inf Rgt
- 2<sup>nd</sup> and 5<sup>th</sup> Ranger Bn's
- 743 Tank Bn
- Spec Engineer Task Force
- 58<sup>th</sup> Arm FA Bn
- 111<sup>th</sup> FA Bn
- 112 Eng Combat Bn
- 81st Chem Weap Bn
- 467 AA Bn
- 461<sup>st</sup> Amp Tuck Bn







## US Army and the Funnies

- Grudgingly accepted DD's though had grave reservations about them.
- Initially refused as they felt that the weight of the force would take the beach
- Belated order in Feb 44 for 25 Sherman Crab, 100
   Sherman Crocs and unknown number of Sherman AVRE's too late
- Sherman Jumbo didn't arrive until Aug
- AMTRACS not present

#### Sherman Assault Tank aka Jumbo





## Neptune-Omaha

• US forces began embarking 12 miles out

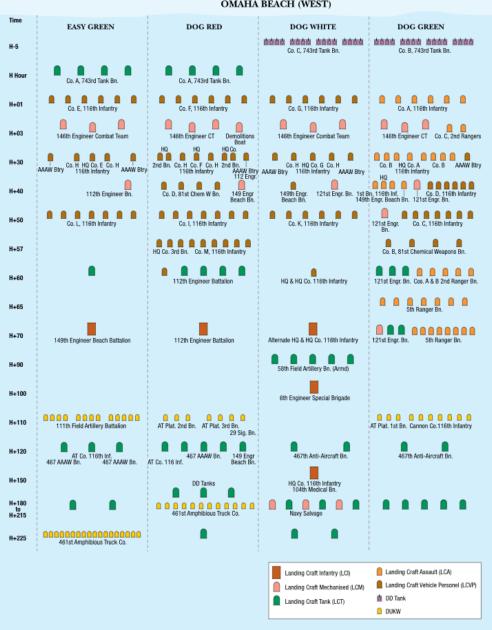




## Neptune-Omaha

- Omaha would have shortest naval bombardment of 40 minutes duration
- o558 Counterbattery fire begins
- H hour 20 bomb moves to beach itself
- H hour bomb shifts to area behind beach



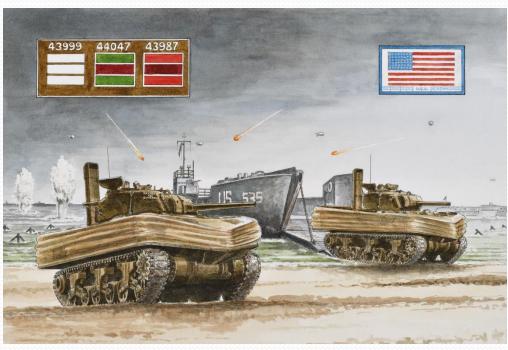


## Omaha Beach

OMAHA BEACH, 6 JUNE 1944

- 1: Corporal, 116th Inf Regt, 29th Infantry Division
- 2: 1st Lieutenant, 116th Inf Regt, 29th Inf Div
- 3: T/5, Engineers, 2nd Infantry Division





## Omaha Beach

#### NORMANDY & NORTHERN FRANCE, 1944

- 1: Grenadier, Grenadier-Regiment 914; Omaha Beach, Normandy, 6 June 1944
- 2: Gefreiter, Panzergrenadier-Lehr-Regiment 901; Barenton, August 1944



