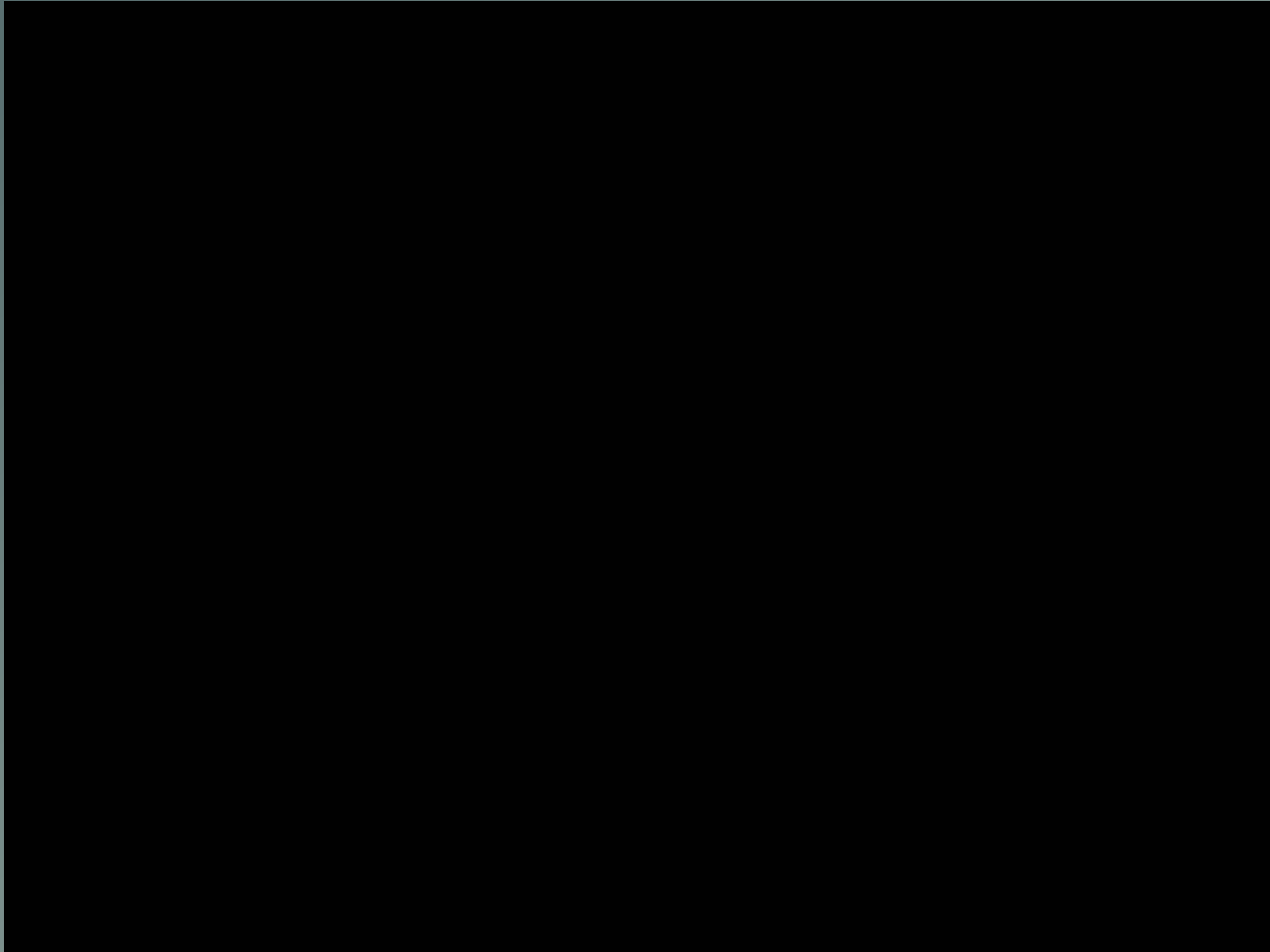




Acoustic Weaponry in American Battles



Unclassified



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1812 – Battle of Queenston Heights



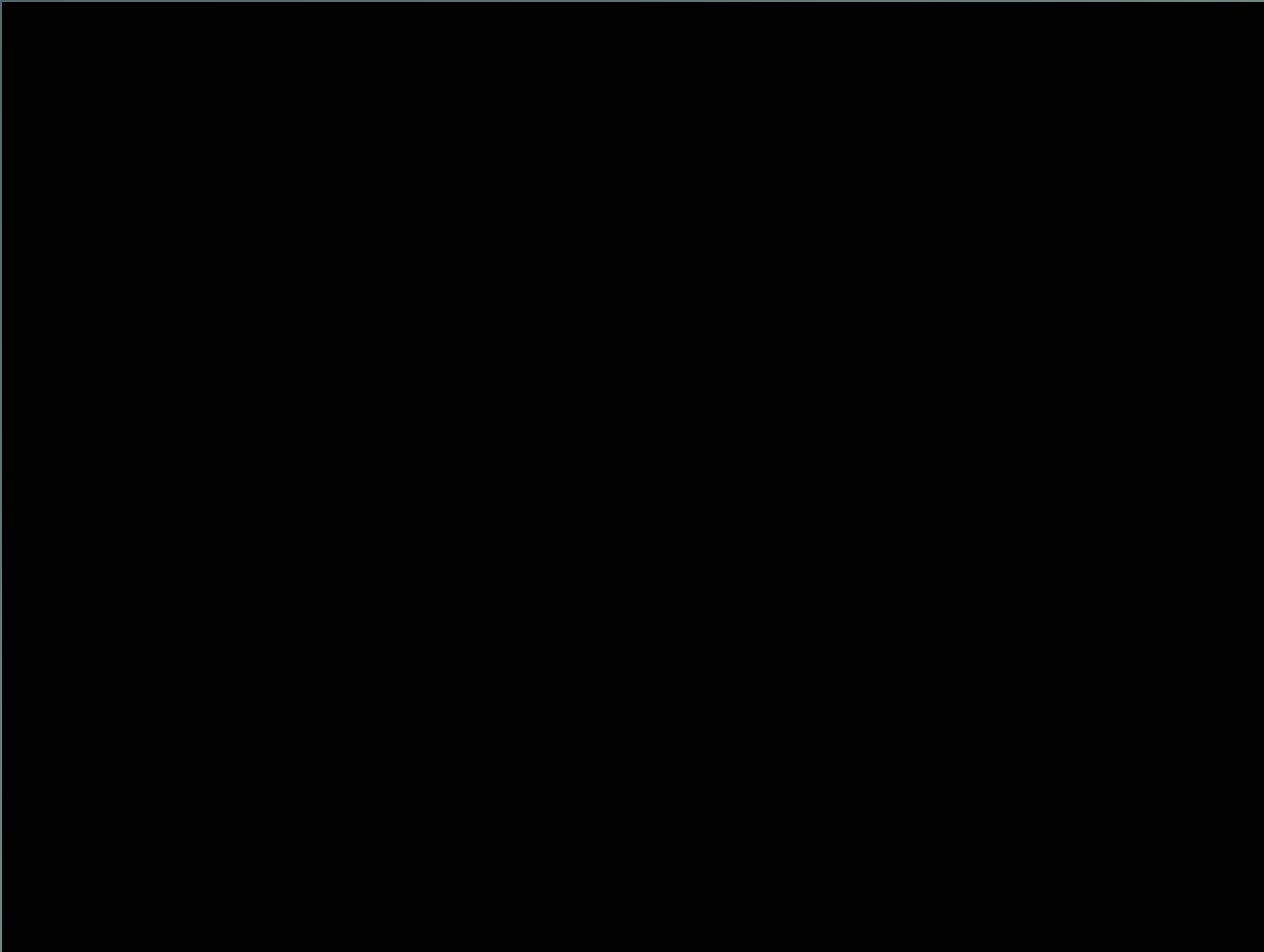
The Iroquois War Cry was used as both an offensive weapon, and as a way to bolster the confidence of warriors going into battle.



Unclassified



1812 - Iroquois War Cry



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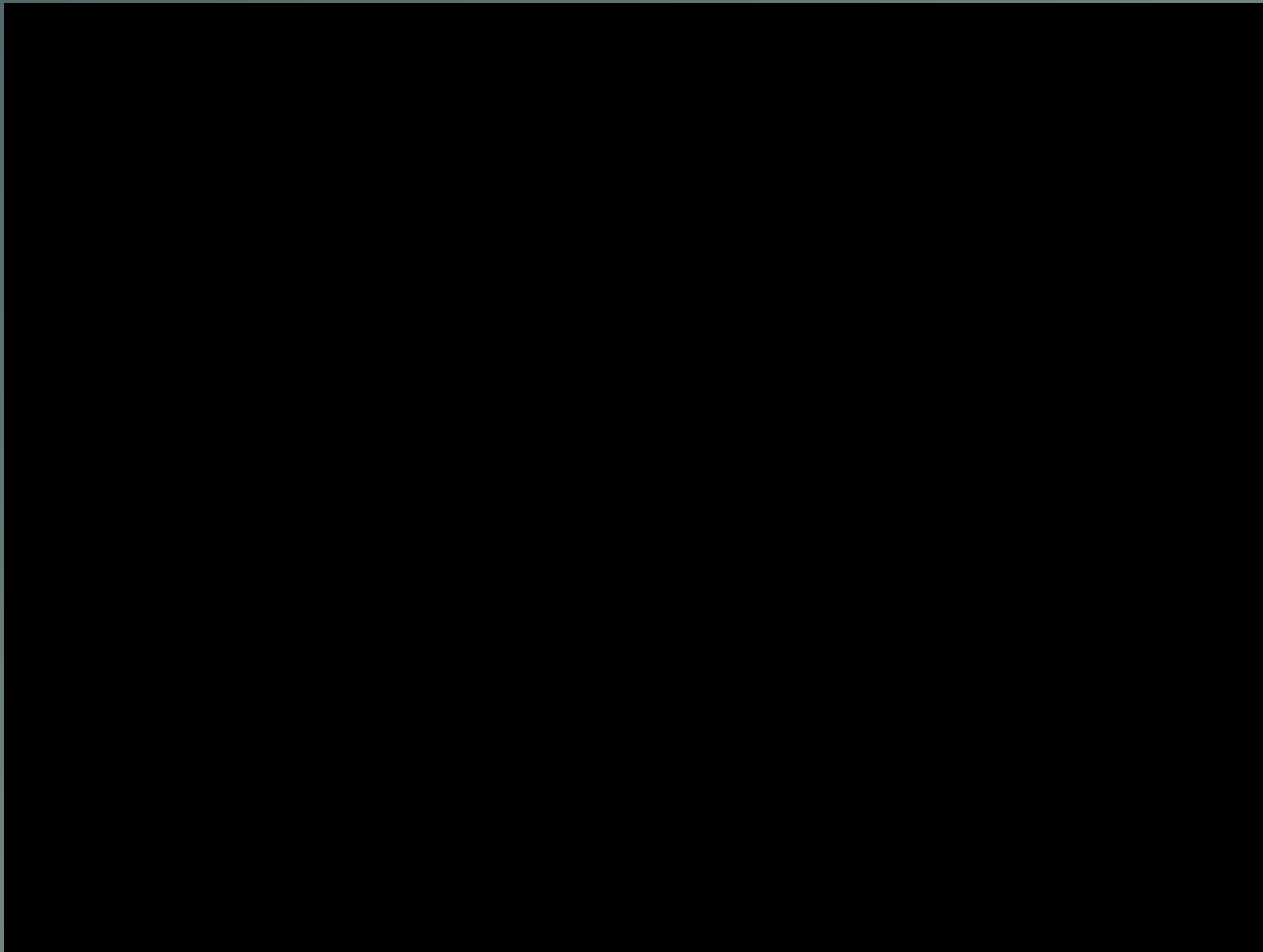
1863 - Rebel Yell

The “Rebel Yell” is recreated by a member of the Confederate Army many years after the end of the Civil War.

Though it loses some effect with the passage of time, this sound was feared by Union troops in battle because it meant that a charge of hundreds, sometimes thousands, of Confederate troops was imminent.

Unclassified

WWII - Stuka Dive Bomber



The Stuka was easily recognizable by its inverted gull wings, and its infamous *Jericho-Trompete* ("Jericho Trumpet") wailing siren. The Stuka quickly became the propaganda symbol of German air power and the Blitzkrieg victories of 1939-1942.

The "terror radius" of its siren wail was far greater than the kill radius of its 250kg bomb.

Unclassified



1989 - Operation Just Cause

In December 1989, US forces invade Panama to protect US civilians and military personnel there, as well as capture Manuel Noriega, the leader of Panama. Noriega hides out in the Vatican Embassy, and asks for asylum from the Pope. US PSYOP forces bombard the embassy with loud rock music around the clock.

Unclassified



2000 - USS Cole



Unclassified





Gitmo Interrogations

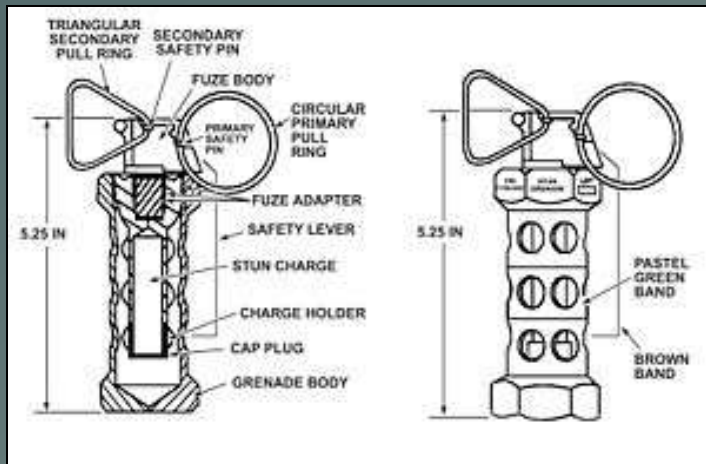


Music was used by interrogators at Gitmo as one of the means for breaking the will of the illegal enemy combatants held there. The list of music used included: Metallica, Britney Spears, the Drowning Pool, Eminem, Bruce Springsteen the Bee Gees and Barney, the Purple Dinosaur.

Unclassified



M84 Stun Hand Grenade (Flash Bang)



The Stun Hand Grenade is a non-fragmentation, non-lethal “flash/bang” grenade. It has been successfully deployed in many situations to confuse, disorient or momentarily distract a potential threat in forced entry scenarios as well as selected MOUT operations.

Unclassified



Present - LRAD

The Long Range Acoustical Device is one of the new family of non-lethal weapons developed for use by police and armed forces that “provides focused broadcasts to intelligibly transmit critical information, instructions and warnings at distances from 100 meters to 3,000 meters.”

Unclassified



Conclusion

Acoustic weapons will continue to advance into areas that cannot now be predicted...so hearing protection on the battlefield will need to advance into areas not now known.

Unclassified