

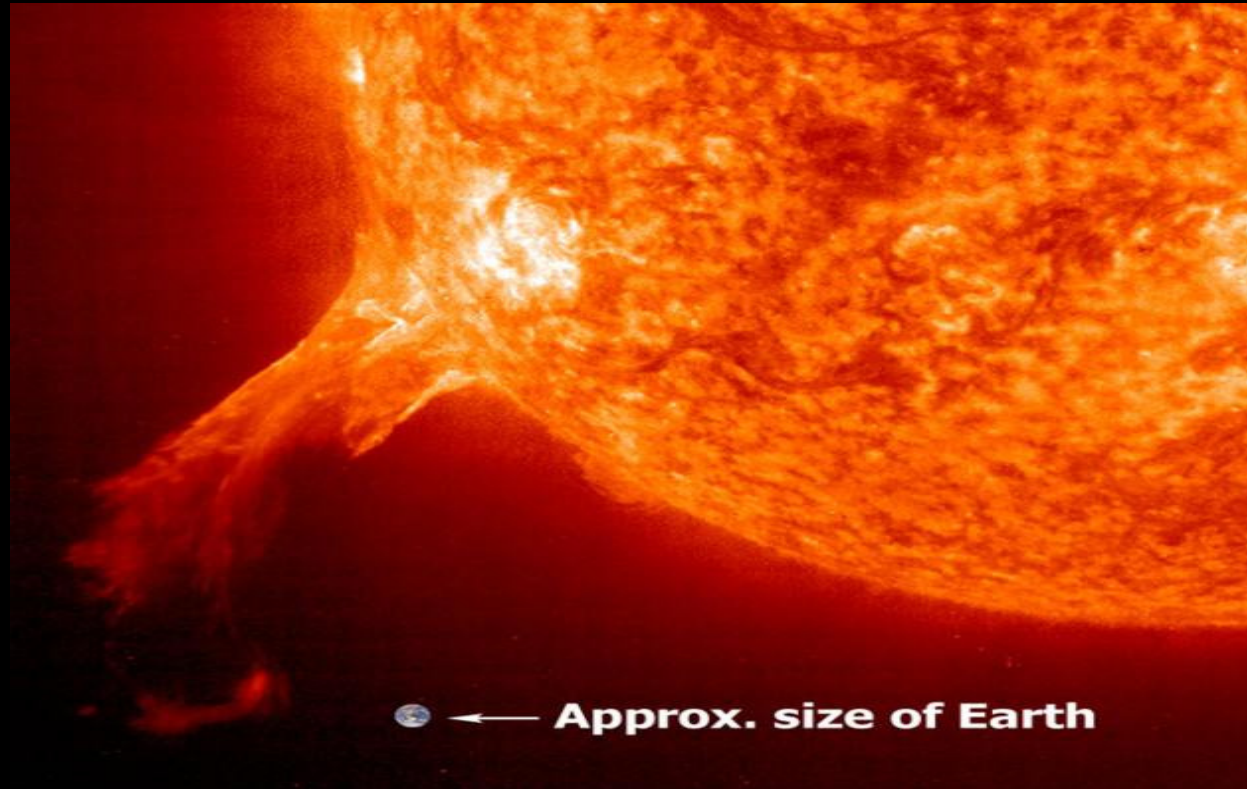
# GRID SECURITY THREATS 2013-2015

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EMP Task Force on National and Homeland Security

[EMPTaskForceNHS.com](http://EMPTaskForceNHS.com)

**JULY 22, 2012**



Coronal Mass Ejection (CME) capable of generating catastrophic geomagnetic super-storm narrowly missed Earth on July 22, 2012. NASA estimates the likelihood of such a storm hitting Earth to be 12 percent over the next decade--which virtually guarantees a natural EMP catastrophe will happen in our lifetimes or that of our children.

## THE THREAT FROM NORTH KOREA

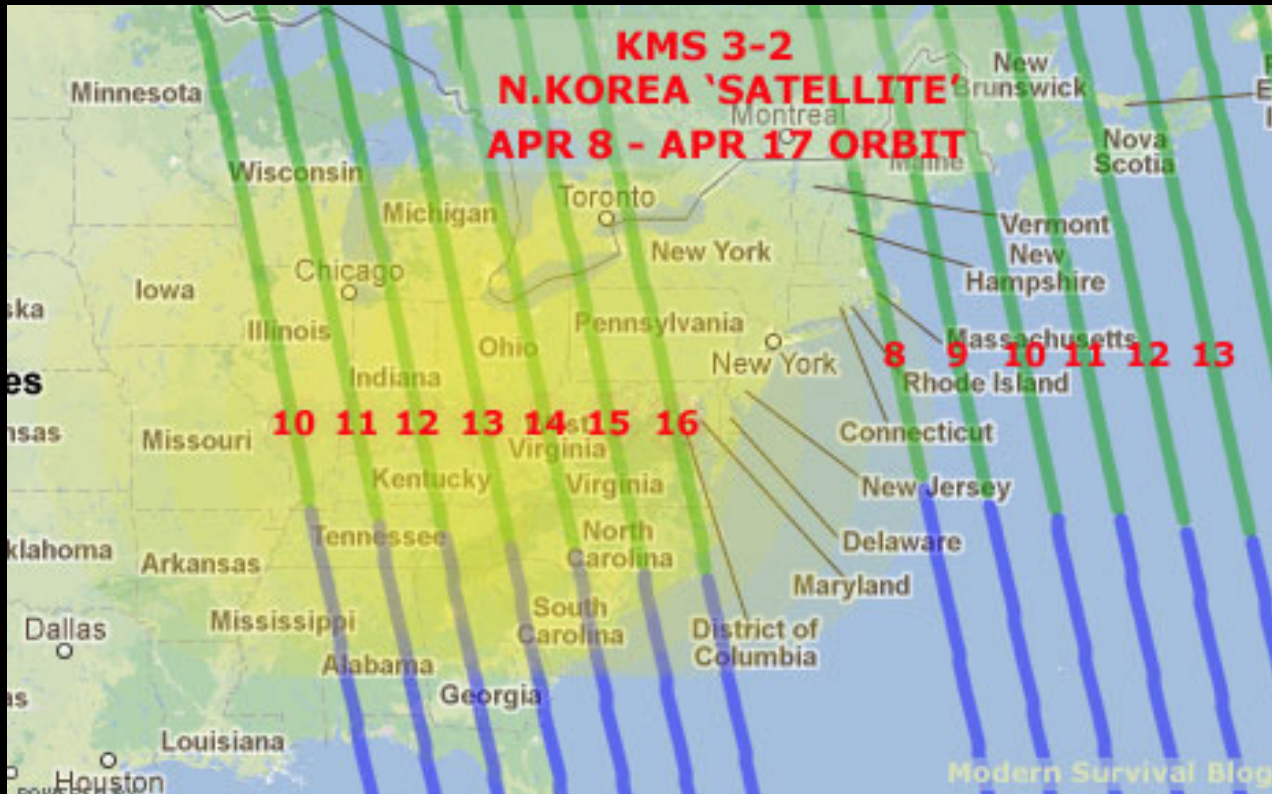


An April 2013 photo of North Korean despot Kim Jong Un at an urgent meeting with his top generals. The map is labeled "The Strategic Forces' Plan to Strike the U.S. Mainland."

### North Korea has:

- ★ Tested nuclear weapons, including reportedly a 'super EMP' design obtained from Russia
- ★ Repeatedly threatened the U.S. with nuclear attack
- ★ Orbited a satellite that could be used in an EMP strike
- ★ Collaborated closely with Iran on nuclear arms and missiles

## THE THREAT FROM NORTH KOREA



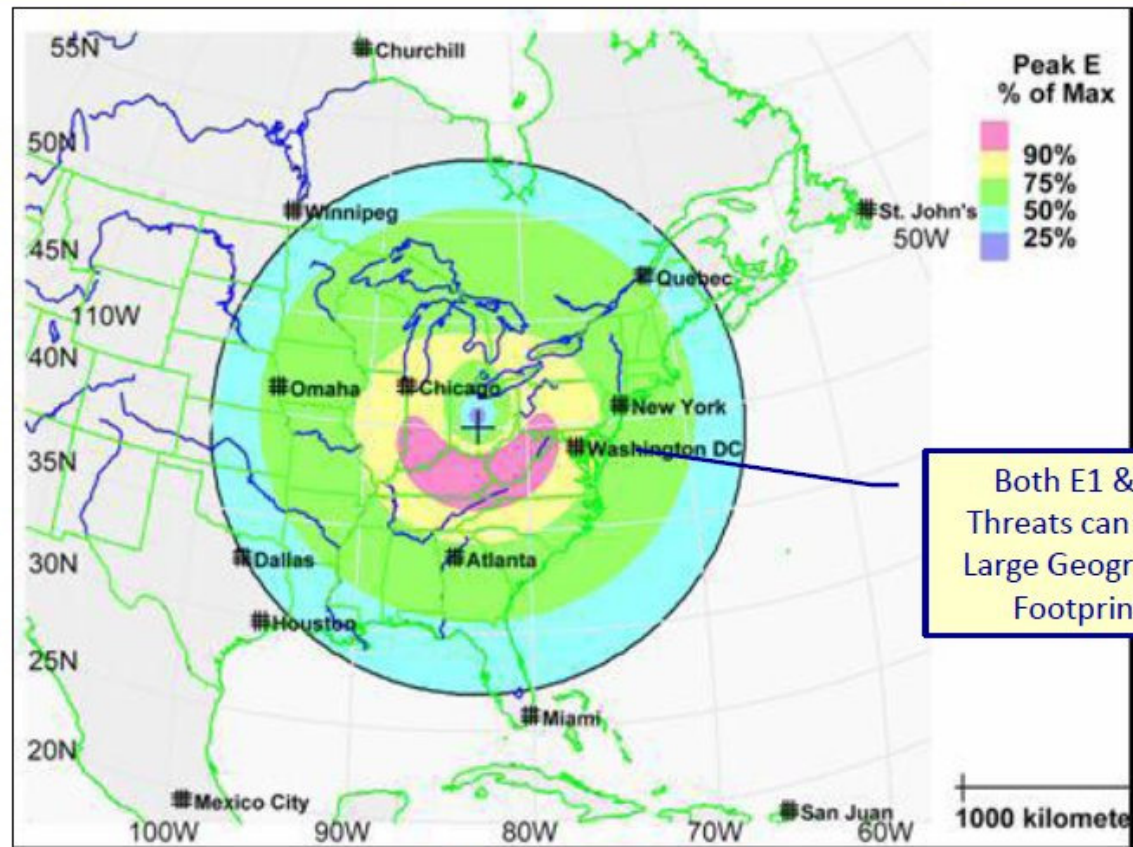
Orbital passes in April 2013 of the North Korean KMS 3-2 satellite over the most populous parts of the U.S. east of the Mississippi

- North Korea's KMS 3-2 satellite is compatible with the size and weight of a small nuclear weapon – particularly one optimized for EMP effects – and is orbiting at an altitude suited for such use. It also approaches the U.S. from the south, a direction which lacks early warning or missile defenses.

# NUCLEAR HEMP OVER

## High Altitude-EMP Threats to US Electric Grid

Source: EMP Commission Executive Report

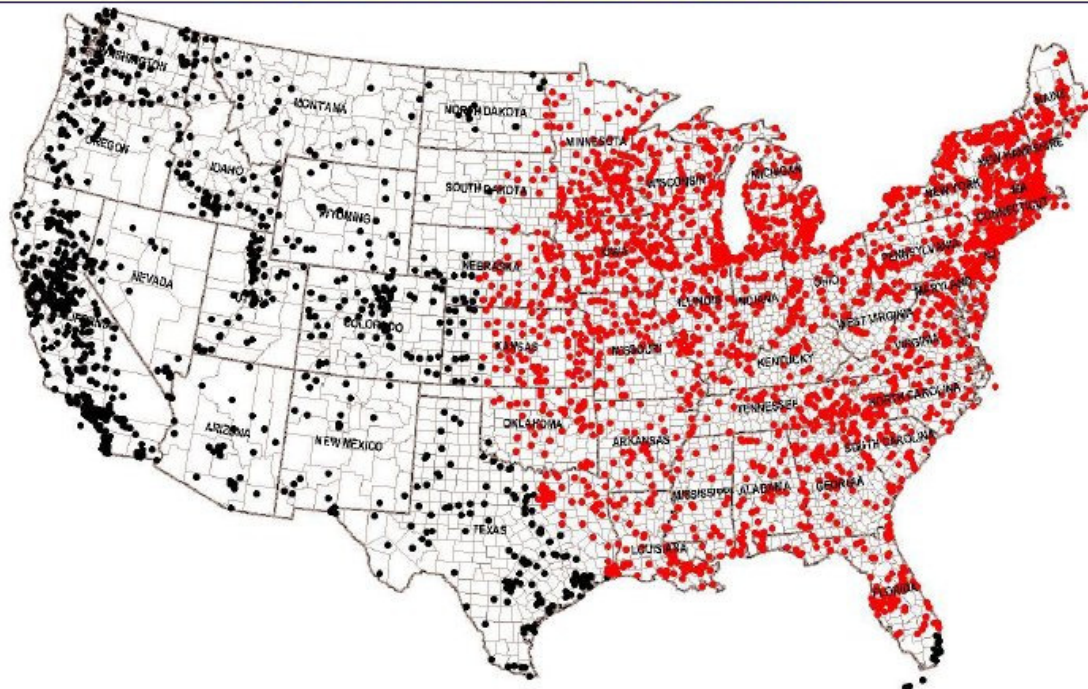


Both E1 & E3 Threats can have Large Geographic Footprints

HEMP Effects Area – Fast Pulse

# 74.4% OF U.S. POWER GENERATION CAPACITY

## EMP Threats to US Electric Grid Large Electric Generation Plants



HEMP Fast Pulse exposed power plants (Red) total 10,730 with a generation capacity that is ~74.4% of the U.S. total generation capability.

## THE 'SCUD-IN-A-TUB' THREAT



A Scud ballistic missile on its launcher (left) and ready to fire one concealed in a ship-borne container (above)

# IS AN EMP-FROM-THE-SEA THREAT REALISTIC?



The *Chong Chon Gang*, a tramp steamer owned by Iran's ally, North Korea, and its secret cargo, hidden under 10,000 tons of sugar

Two full-up, nuclear-capable SA-2 missiles on their launchers were discovered in Panama on a North Korean-flagged vessel under sugar bags in July 2013



# MEXICO'S MICHOACAN STATE BLACKOUT BY KNIGHTS TEMPLARS TERRORIST DRUG CARTEL OCTOBER 27, 2013

## ÁREAS AFECTADAS

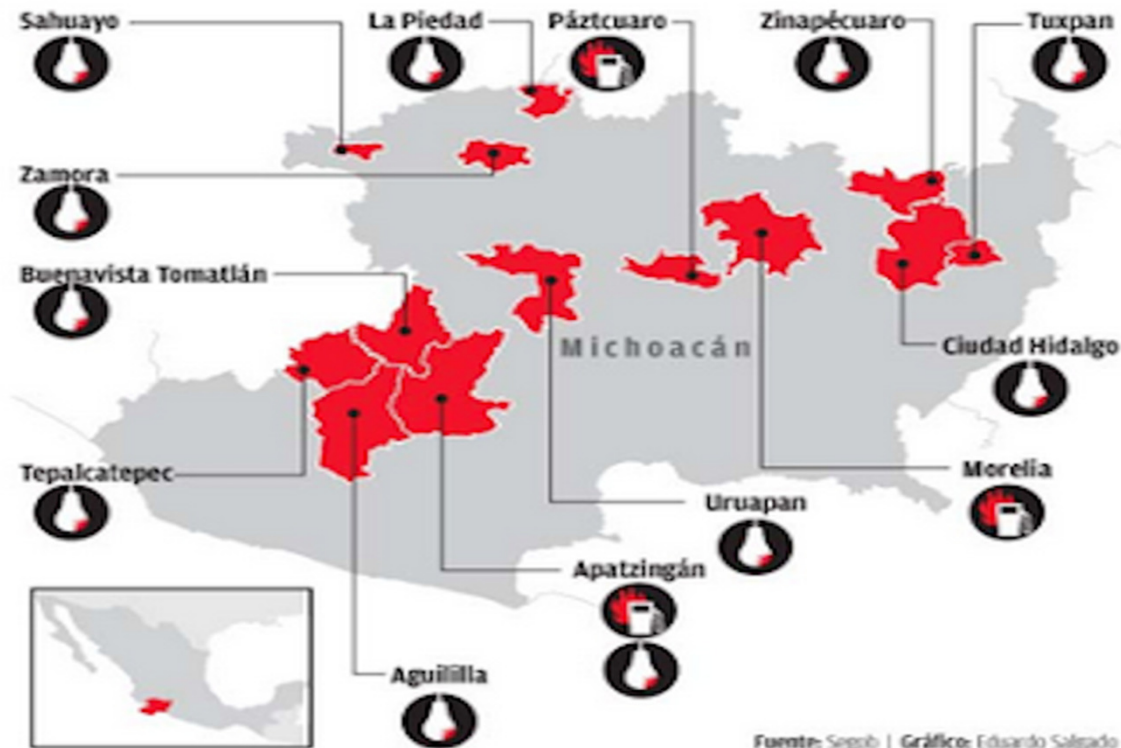
► Los ataques ocurrieron entre las 23:45 horas del sábado, y la última a las 3:07 del domingo, todos de carácter anónimo.



Daños en gasolinera



Interrupciones al servicio eléctrico



Fuente: Segob | Gráfico: Edsardo Salgado

[Dé clic sobre la imagen para ampliar]

# TERRORISTS BLACKOUT YEMEN

## JUNE 9, 2014



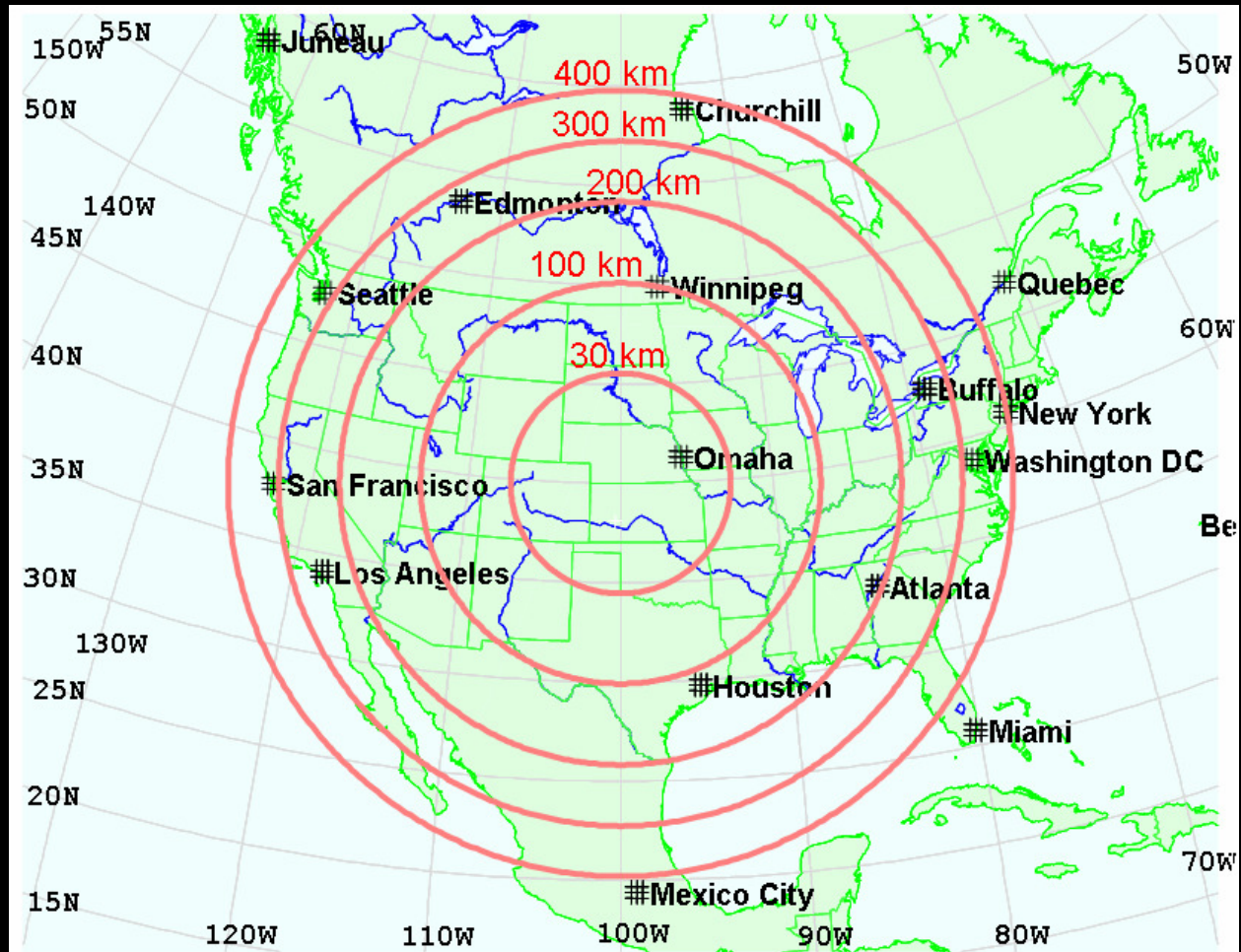


# TERRORISTS BLACKOUT PAKISTAN

## JANUARY 25, 2015



## NUCLEAR HEMP AREA COVERAGE



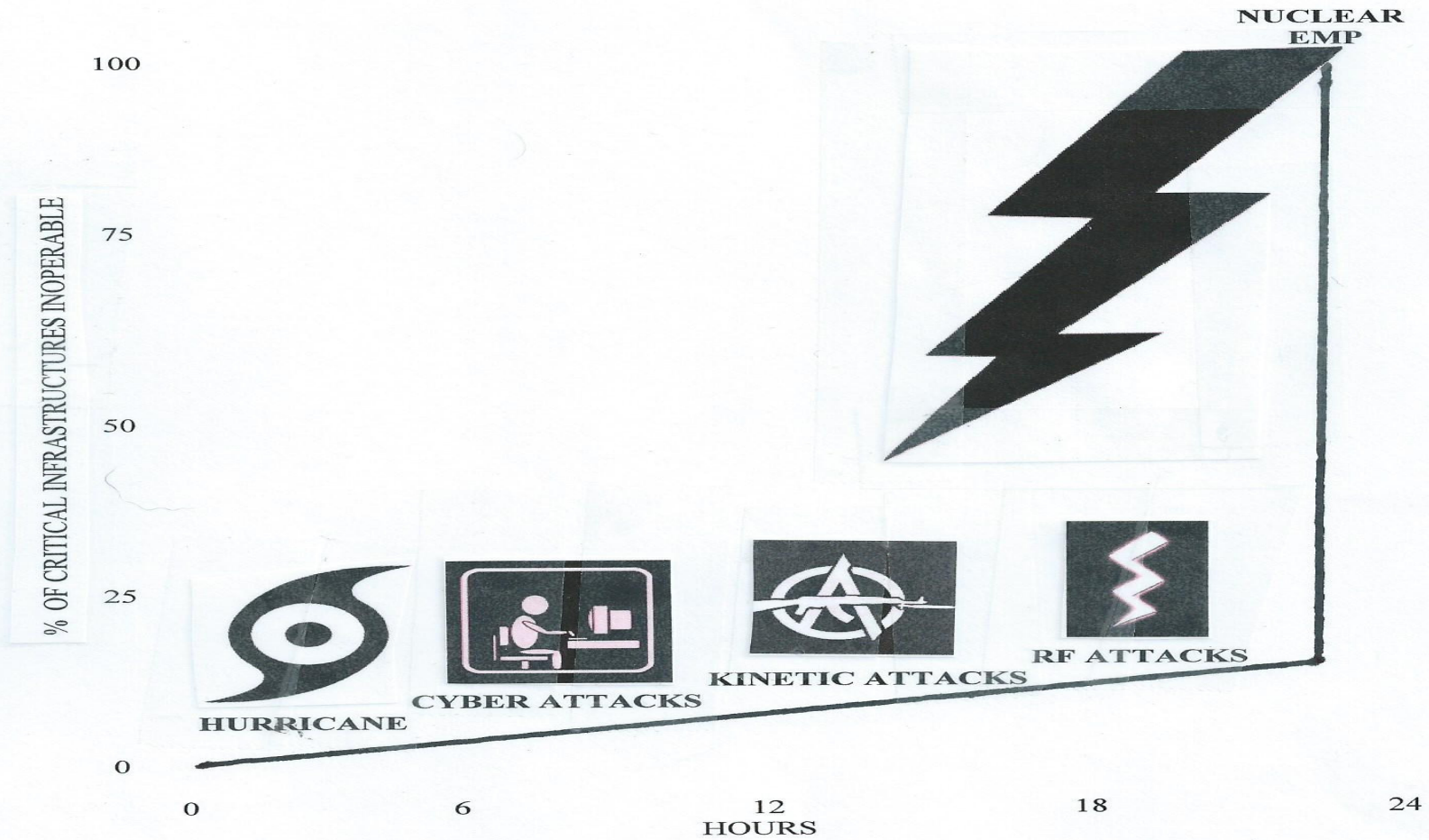
EMP field coverage increases with increasing height-of-burst. A balloon or jet aircraft could loft a nuclear warhead to an altitude of 30 kilometers which, targeted over New York City, would also cover Washington, D.C., New York State, New Jersey, Pennsylvania, Virginia, Maryland, Delaware, and most of New England.

# REVOLUTIONS IN MILITARY AFFAIRS

Soviet Major General P.A. Zhilin, in his classic *The History of Military Art*, a Cold War era textbook still used in Russia's Voroshilov General Staff Academy, describes history as a series of Revolutions in Military Affairs. For example, according to Zhilin:

- The Agricultural Revolution makes possible the rise of the first kingdoms and armies that are conquered and unified into the first Empires by Egypt and the Hittites whose greater productivity enables them to field bigger armies, the first equipped with massed chariots.
- The Persian Empire falls to Alexander the Great and his new Macedonian Phalanx enabling Greek civilization to conquer the Near East and inaugurating the Hellenistic Age.
- Hellenism is conquered by the Roman Empire with its numerically and organizationally superior Roman Legions, military roads, catapults, ballistas and other early war engines.
- Feudal Europe with its castles, mounted knights, and semi-autonomous baronies is shattered by the invention of gunpowder, artillery, and the longbow and is dominated by kings and kingdoms.
- Kingdoms are eclipsed by early nation states, rising nationalism, and the early Industrial Revolution that invents mass citizen armies of the Napoleonic Era and Total War.
- World War I, the first scientific Total War, harnesses the machine gun, poison gas, and industrial mass production to slaughter million man armies, destroying the old world order dominated by Western Europe.
- Nazi Germany nearly wins World War II with the Blitzkrieg, but is defeated by the USSR's "scientific socialism" that supposedly enables the Soviets to out-produce and outfight the Nazis with a better Blitzkrieg.
- Zhilin ends *The History of Military Art* with the Revolution in Military Affairs that is the Nuclear Missile Age, which Zhilin predicts will enable the USSR to defeat the West.

# BLACKOUT WAR



Severe weather, cyber attack, sabotage, RF weapons, and nuclear EMP attack used in coordinated operation to collapse the electric grid and other critical infrastructures.  
Source: Dr. Peter Vincent Pry