

Hawaii Emergency Management Agency





Mission:

To help the Hawaii Ohana prepare for, respond to, and recover from disasters and emergencies





Preparedness

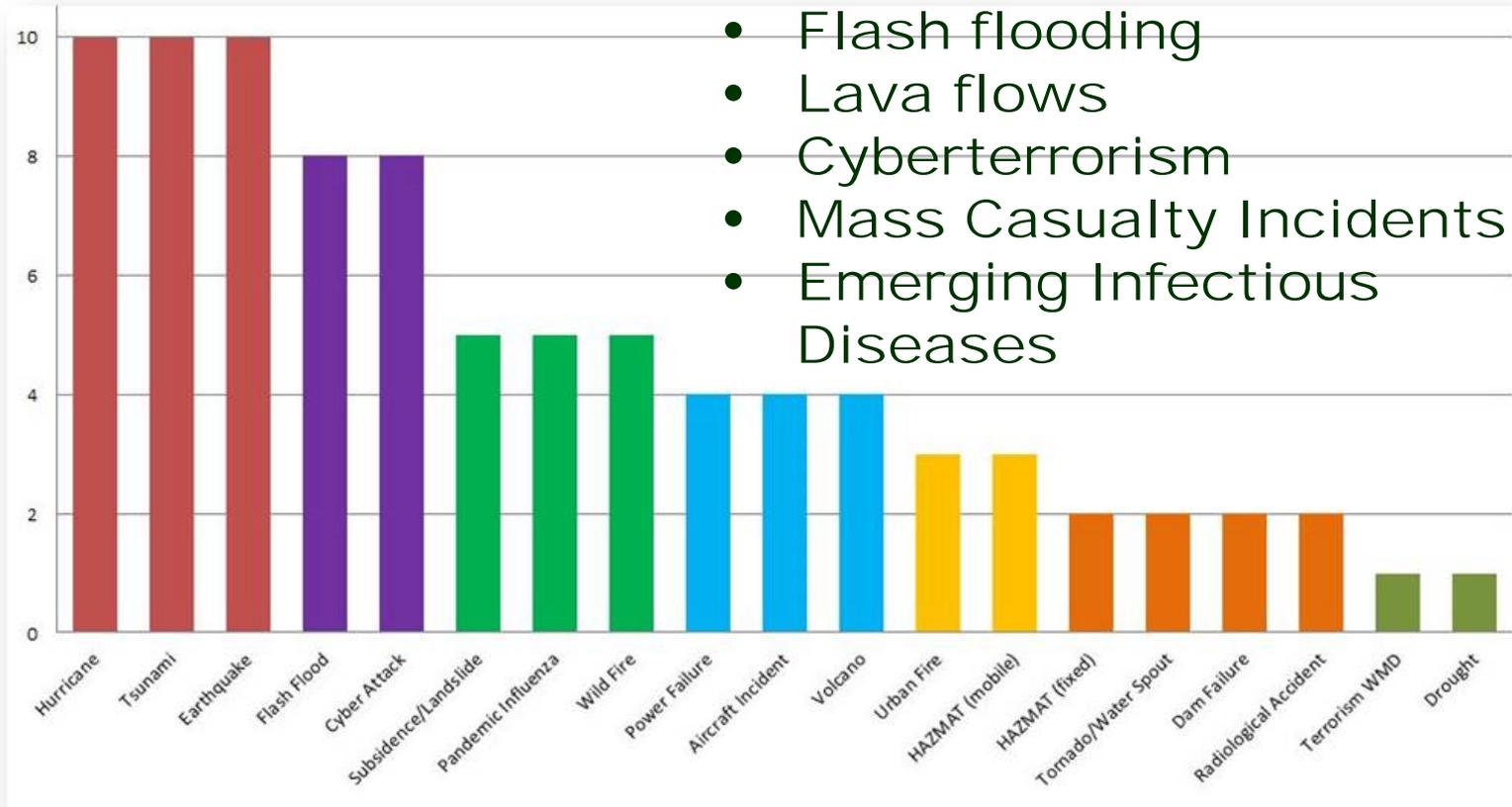
“An informed public (including visitors) that knows what to expect and what to do for all disasters ahead of time.”





Hawaii is Vulnerable

- Hurricanes
- Tsunami
- Flash flooding
- Lava flows
- Cyberterrorism
- Mass Casualty Incidents
- Emerging Infectious Diseases





9/21/2017

REUTERS



What Is Happening

What We Are Doing

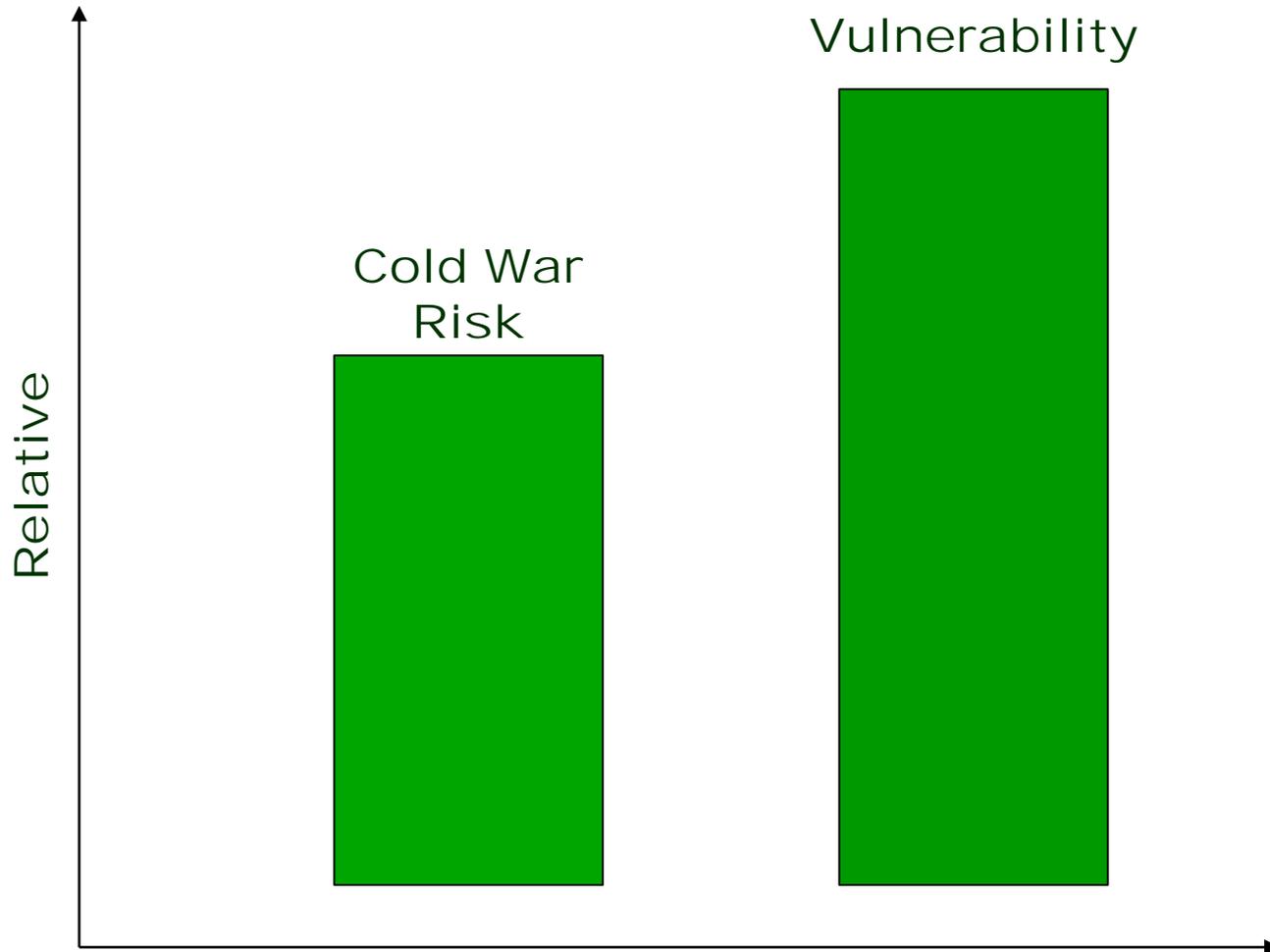
What You Should Do





PERSPECTIVE

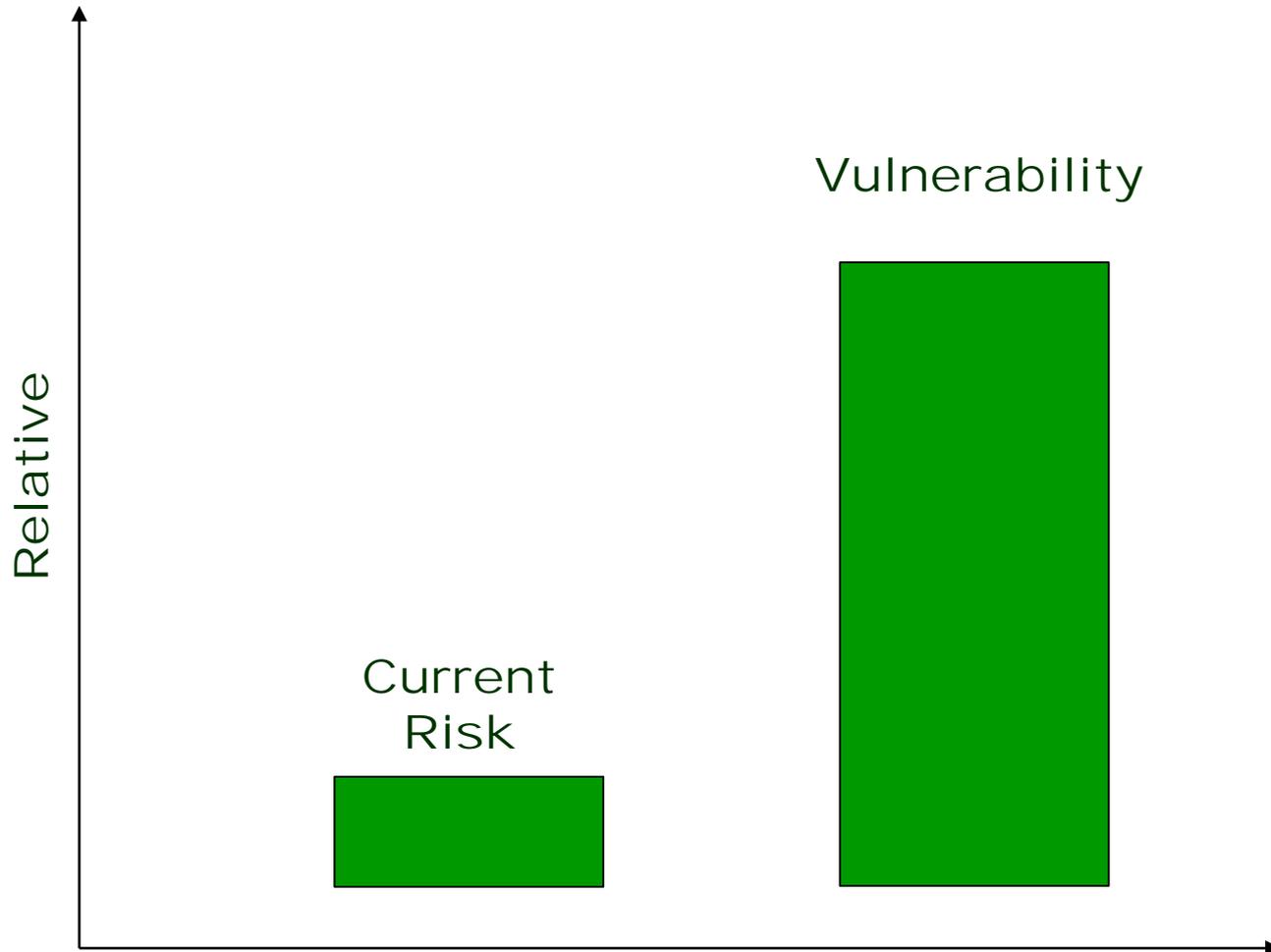
Cold War – Soviet Union





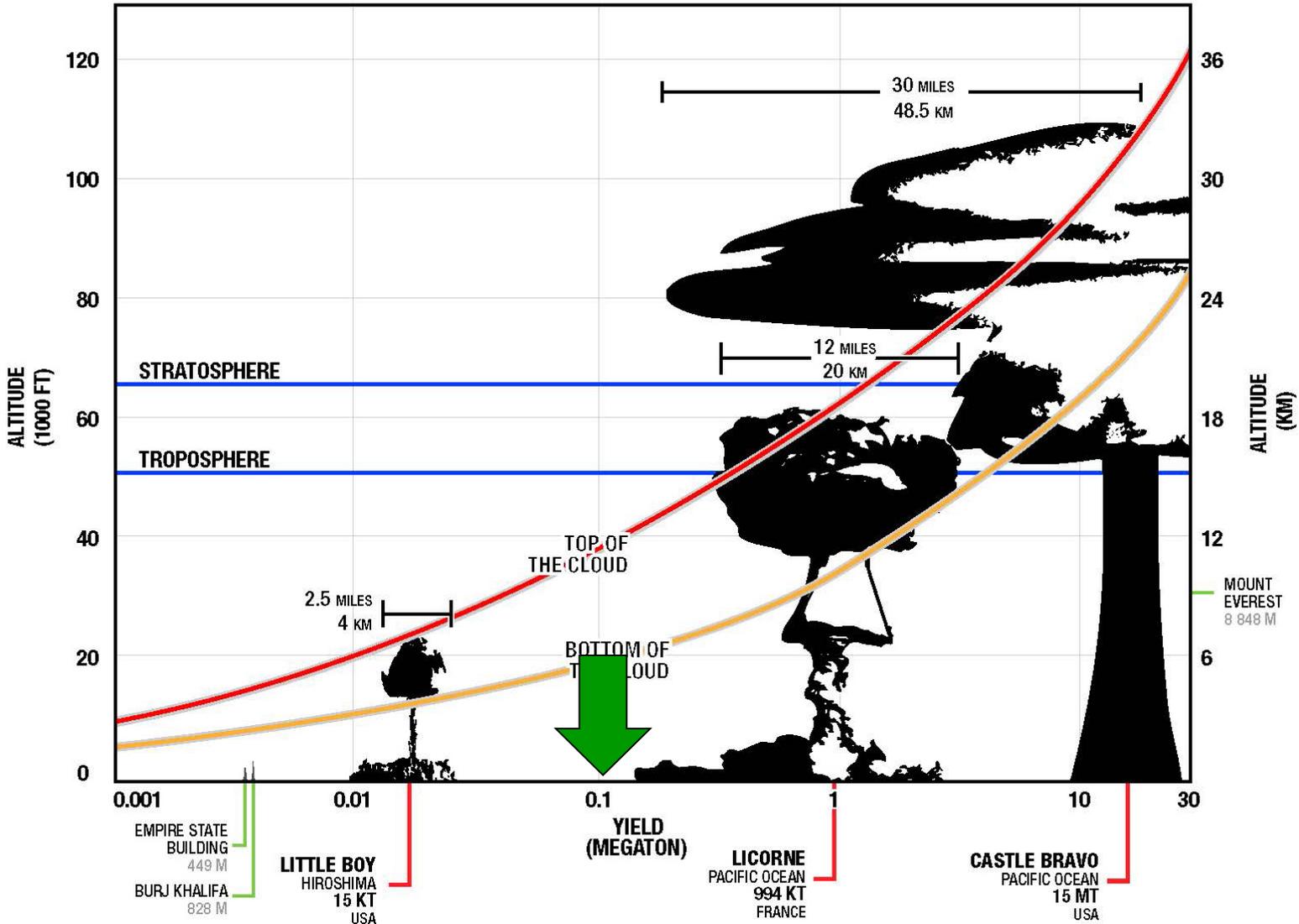
PERSPECTIVE

North Korea Threat





SURFACE DETONATION CLOUD HEIGHT VS. YIELD





Pre-1980's

- **Cold War – Soviet Union**
- **Federally-funded, Civil Defense**
- **Days to weeks to prepare**
- **Relocation of population upon Presidential Order**
- **Comprehensive fallout shelter program**
- **Pre-positioned supplies**
- **Multi - megaton-range devices**

Current

- **Rogue nation**
- **No federal funding**
- **Warning less than 20 minutes**
- **No relocation plans**
- **No designated fallout shelters**
- **No shelter supply caches**
- **Single, kiloton-range device**





Major Effects

Consequences of a 100 kT nuclear weapon at 1,000 feet AGL

1. **Blast and Shock**
2. **Thermal Radiation**
3. **Radiation and Fallout**
4. **Electromagnetic Pulse (EMP)**



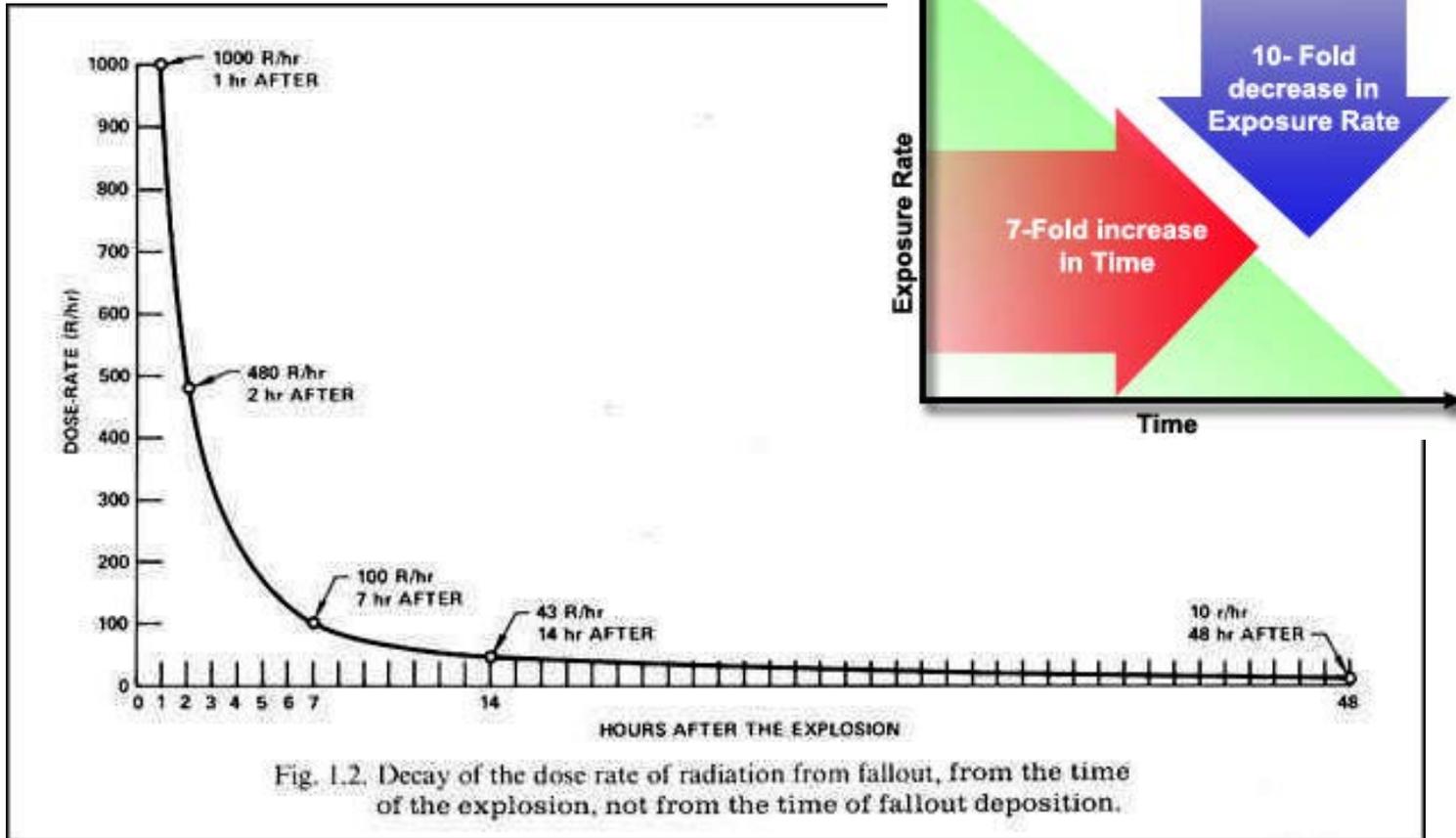
15 kT 1,900 feet AGL Hiroshima, Japan

- Up to 15,000 casualties
- 45-60% of survivors exposed to initial radiation or fallout experience Acute Radiation Syndrome
- Severe damage to critical infrastructure (airport, harbor, power plants, hospitals, highways, other) and surrounding areas
- Widespread structural fires and building collapses
- Loss of critical emergency services – fire, police and EMS units and their communications
- Loss of electrical and water utilities
- Loss of land mobile radio, broadcast radio, television, cellular telephone and internet services related to EMP

**FOR PLANNING
PURPOSES ONLY**



Radiation decay is Rapid





★ What We Are Doing





Planning Assumptions

- 1. North Korea (DPRK) is developing ballistic missile technology and a nuclear payload that can target Hawaii.**
- 2. Launch would likely occur without prior warning.**
- 3. USPACOM will detect a launch, however may not be able to destroy a missile launched at Hawaii with absolute certainty.**
- 4. Honolulu most likely target however impact on a neighbor island cannot be ruled-out**
- 5. No relocation of residents and visitors is planned or will be attempted in advance of a missile launch – 20 minute launch to impact timeline**
- 6. Missile payload ranging from a low-yield (< 15 kT) nuclear device to a mid-yield (100 to 200 kT). Using 100kT at 1,000 feet AGL.**
- 7. As the threat grows to include CONUS states, federal guidance may emerge requiring alignment.**





How Hawaii is Preparing

Phase I

Improve emergency notification and warning

- **Missile launch notification**
- **Public warning script for EAS, WEA**
- **Upgrade siren warning system**

Conduct initial analysis and planning

- **Nationwide survey**
- **Planning model 15 kT, 1000' AGL**
- **SWP procedures**
- **Annex to State EOP**
- **Five working groups**

Develop public preparedness and response guidance

- **Public response guidance**
- **Preparedness guide**
- **Speakers bureau**

Phase II

- **Immediate response operations**
- **Emergency medical care and fatality management**
- **Radiological monitoring and Decontamination**
- **Contingency Communications and EMP**
- **Initial Recovery and Restoration of Essential Services**



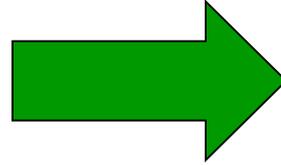


Launch to Impact only 20 Minutes

USPACOM JOC



State Warning Point



Elapsed Time: 0

5

10

20



Detection

Warning

Individual Action

Launch

Sirens

Get Inside

Defenses

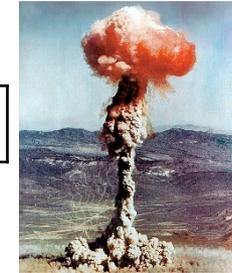
EAS/WEA

Stay Inside

Notifications

Activation of
State EOC

Stay Tuned





Outdoor Siren System

Within 1 minute of notification



9/21/2017

Steady Tone
'Attention-Alert'
Listen to radio or television



Steady.wav



Wailing Tone
'Attack-Warning'
Seek Shelter Immediately

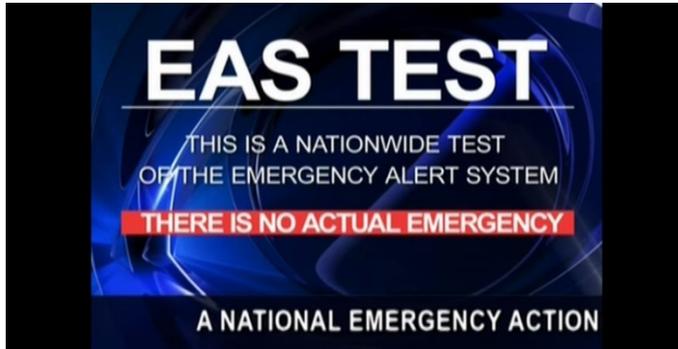


Wail aka Attack.wav

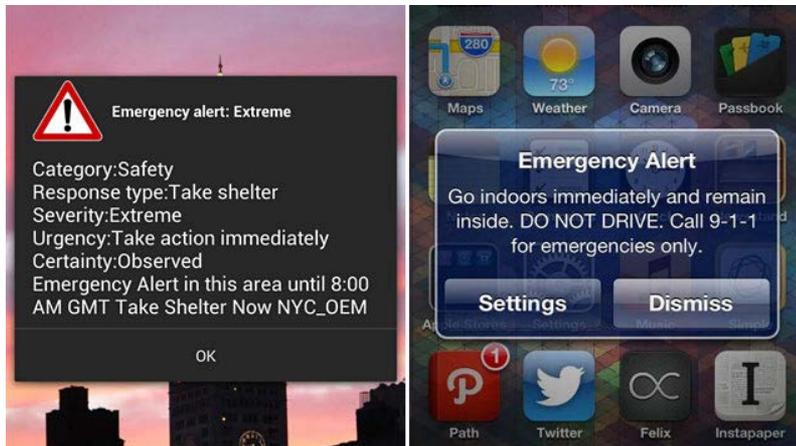
**NOV TESTING
CANCELLED**



Emergency Alert System



Television



Smart Phone





Pre-Scripted Message

The following message shall be transmitted on the EAS and WEA systems simultaneously and continuously until the threat has passed:

“The U.S. Pacific Command has detected a missile threat to Hawaii. A missile may impact on land or sea within minutes. This is not a drill.”

“If you are indoors, stay indoors. If you are outdoors, seek immediate shelter in a building. Remain indoors well away from windows. If you are driving, pull safely to the side of the road and seek shelter in a building or lay flat on the ground.”

“We will announce when the threat has ended.”





★ What You Should Do





What to Do

- * Stay updated on the situation in NK.
- * Learn about nuclear events: FEMA website at [Ready.Gov](https://www.ready.gov); HI-EMA at [Ready.Hawaii.Gov](https://www.ready.hawaii.gov); Dept. of Emergency Mgmt at [HNL.Info](https://www.hnl.info)
- * Get Inside/stay Inside/stay Tuned.
- * Shelter in place – know where that place is ahead of time and prepare it. May be multiple places during the day.
- * Have a plan – Individual, family, work place, friends, etc. Know where to go/what to do/when to do it ... ahead of time.
- * Drill – Actions automatic – no time to call family and friends.
- * Family/individual emergency supply kits – [14 DAYS](#)





GUIDANCE SUMMARY for COORDINATED PUBLIC MESSAGING
Nuclear Detonation

Revised: 27 JUN 2017.3



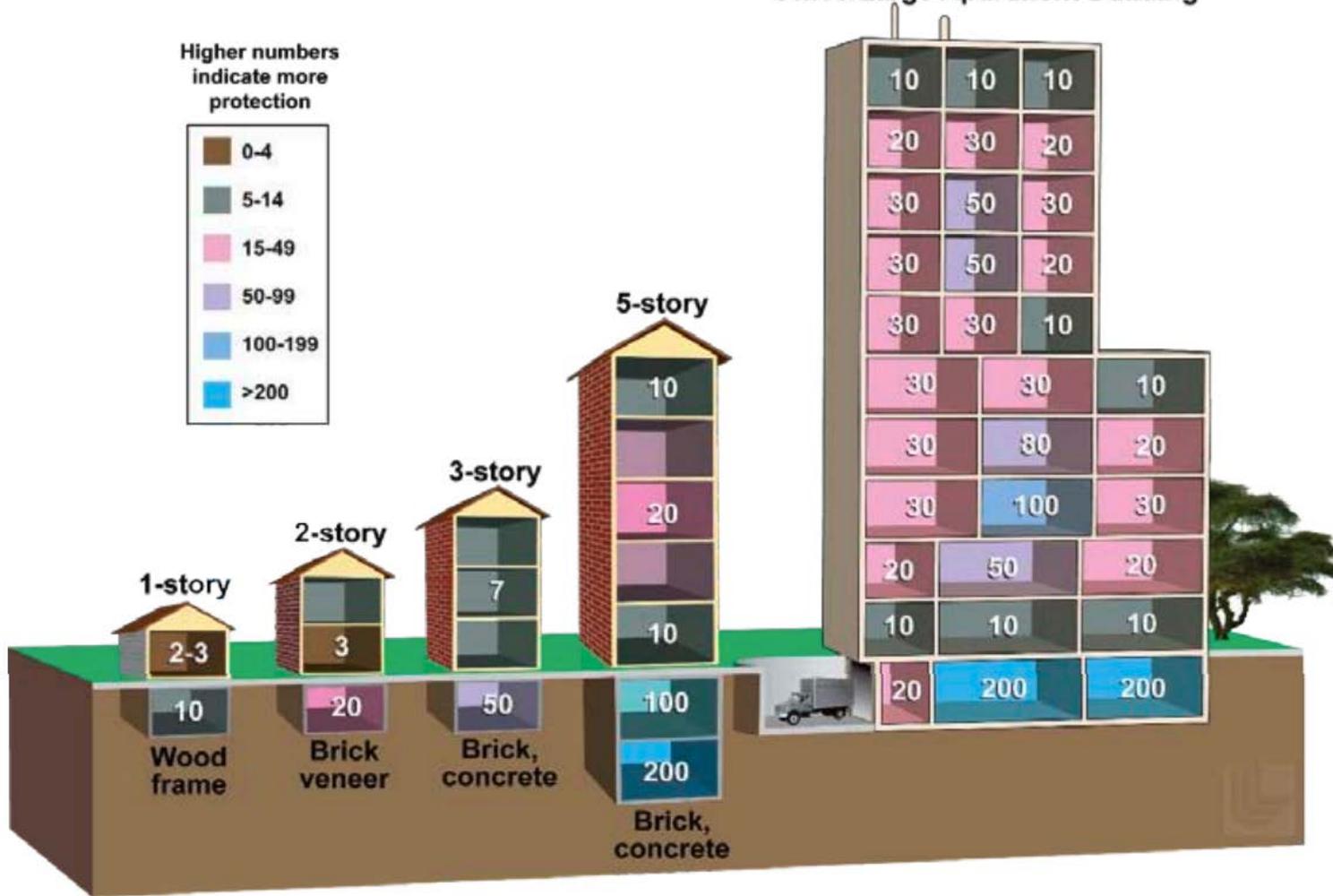
Triggers	Mnemonic	Immediate Action	Rationale
<p>Sirens sound <i>Attack-Warning</i> signal</p>		<ol style="list-style-type: none"> 1. <u>If you are indoors</u>, stay indoors well away from windows. 2. <u>If you are outdoors</u>, seek immediate shelter in a building preferably a concrete structure such as a commercial building or parking structure. 3. <u>If you are driving</u>, pull safely to the side of the road and seek shelter in a nearby building or lie flat on the ground. 4. DO NOT look at the flash of light. 	<ul style="list-style-type: none"> • Surviving the immediate effects of a nuclear detonation (blast, shock, thermal radiation, initial nuclear radiation) requires sheltering in resistant structures • You may have only minutes to take protective action – take immediate action without delay • There are no designated blast or fallout shelters in Hawaii • Light generated by the weapon will damage unprotected eyes
<p>Emergency Alert System (EAS) advisory</p> <p>Wireless Emergency Alert (WEA) system advisory</p>		<ol style="list-style-type: none"> 1. Remain sheltered until you are told it is safe to leave or two weeks (14 days) have passed, whichever comes first. 2. You may be advised that it is safe to leave your shelter for short periods of time to locate food, water and medical care. 3. Electrical, water and other utilities may be severely disrupted or unavailable. 	<ul style="list-style-type: none"> • Following the detonation, sheltering from radioactive fallout for up to 14 days is critically important • Public may need to briefly leave their shelters to locate essential supplies and equipment • Emergency Management will assess residual radiation levels and advise when sheltering can be discontinued
<p>Brilliant white light (flash) is observed</p>		<ol style="list-style-type: none"> 1. Listen to local AM-FM radio stations for official information. 2. Cell phone, television, radio and internet services will be severely disrupted or unavailable. 3. Small portable walkie-talkies may give you communication with nearby shelters. 	<ul style="list-style-type: none"> • Local AM-FM broadcast radio is most survivable and may be useful in advising the public post-detonation • Other communication technologies may be damaged by weapons effects such as EMP¹ • FRS² and GMRS radios are widely available in the community and may be useful in keeping people in communication with one another

¹ EMP = Electromagnetic Pulse

² FRS = Family Radio Service (unlicensed); GMRS = General Mobile Radio Service (licensed)

Office/Large Apartment Building

Higher numbers indicate more protection



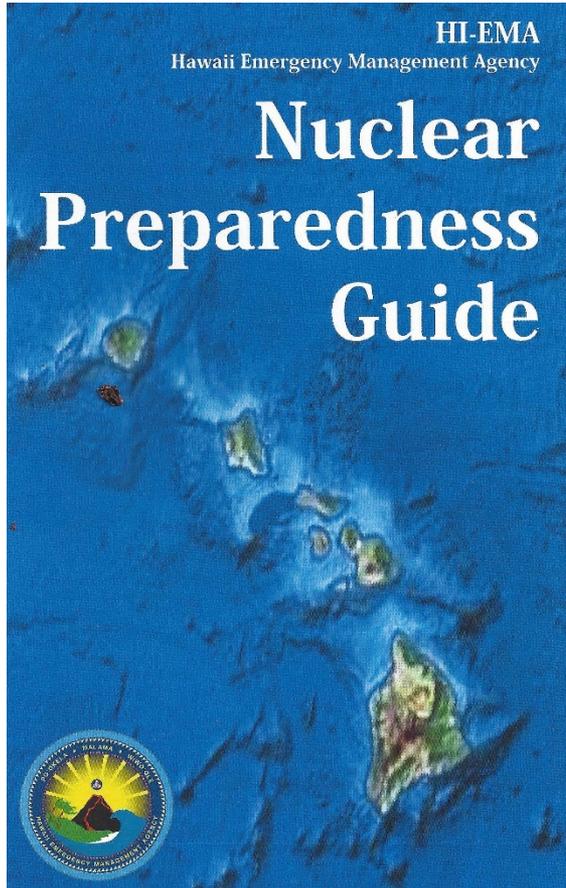


Personal Preparedness

- 14 days of food, water and medications
- Battery powered AM-FM radio
- FRS/GMRS hand-held walkie-talkie
- Flashlight with extra batteries
- Important documents in plastic bag
- Whistle, blankets and tarp
- Personal hygiene items
- First-aid kit
- Cash in small bills



Public Information



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State of Hawaii
Hawaii Emergency Management Agency

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REVISION: LATEST/RECENT

Revised: 27 JAN 2013

Alert Type	What to Do	What to Avoid
Stress sound/Attack warning signal 	<ol style="list-style-type: none"> It will ring indoors. Why indoors? Get away from windows. It will ring outdoors. Seek immediate shelter in a building preferably a concrete structure such as a commercial building or parking structure. It will ring outdoors. Fall safely to the side of the road and seek shelter in a nearby building or on flat on the ground. DO NOT look at the flash of light. 	<ul style="list-style-type: none"> Operating the immediate effects on a nuclear detonation (blast, shock, thermal radiation, ionizing radiation) require immediate response, including: <ul style="list-style-type: none"> You may need and need to take protective action - take immediate action and stay alert. There are no designated based or fixed locations to shelter. Light generated by the weapon will damage and blind.
Emergency Alert System (EAS) advisory 	<ol style="list-style-type: none"> Remain sheltered until you are told it is safe to leave or two weeks (14 days) have passed, whichever comes first. You may be advised that it is safe to leave your shelter for short periods of time to locate food, water and medical care. 	<ul style="list-style-type: none"> Following the detonation, shadings that reduce the level of UV up to 14 days is advised (dependent). Plan. How should you make your shelter to make essential supplies and equipment? Emergency management will advise. There are no designated based or fixed locations to shelter and advice often changing will be disseminated.
Wireless Emergency Alert (WEA) system advisory 	<ol style="list-style-type: none"> Electrical, water and other utilities may be severely disrupted or unavailable. 	
Blinker white light (Flash) is observed 		

GUIDANCE SUMMARY FOR COORDINATED PUBLIC MESSAGING – NUCLEAR DETONATION

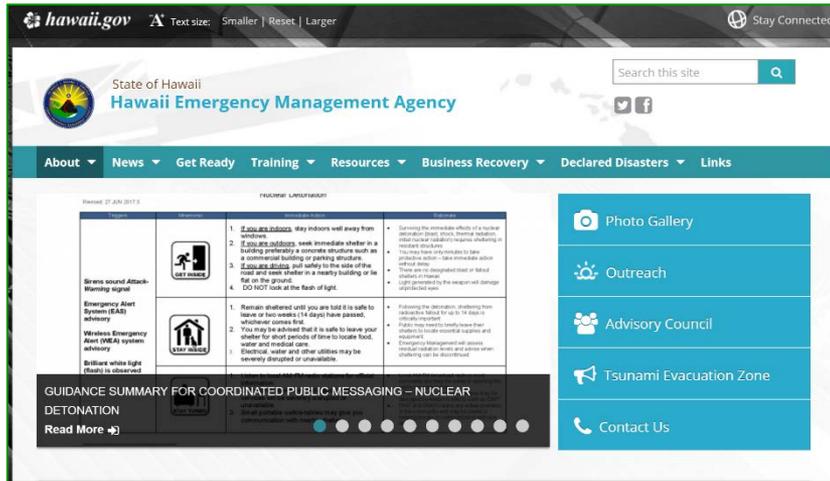
Read More

Photo Gallery
Outreach
Advisory Council
Tsunami Evacuation Zone
Contact Us





HI-EMA Website



- Ready.Hawaii.Gov
- Live as of July 1st
- Distinct 'Nuclear Threat' tab
- Content a mirror of booklet and other documents





It is still Hurricane Season!



Hurricane IRMA Key West 09/2017



Toby Clairmont – Hawaii Disaster Medical Assistance Team (DMAT)

9/21/2017

Questions?



Telephone: (808) 733-4300
HawaiiEMA@hawaii.gov

