



# US ARMY MARS



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**Presented by:  
Ronald A. Tomo  
US Army MARS  
Region Two Director**





# MARS

**Two Services:**

**ARMY MARS**

**AIR FORCE MARS**

***NAVY/Marine Corps MARS (EXTINCT)***



<https://www.usarmymars.org/>

<https://www.dodmars.org/mars-comex-information-website>



# US ARMY MARS

## Military Auxiliary Radio System

- Provide contingency radio communications to the Department of Defense and ALL Supported Agencies
- Assist in effecting normal communications under emergency conditions
- Provide training in military communications, techniques, and procedures
- Conduct Amateur radio exercises as part of annual Armed Forces Day



[WWW.ARMY.MIL](http://WWW.ARMY.MIL)

THE OFFICIAL HOMEPAGE OF THE UNITED STATES ARMY



# Who Does Army MARS Report To?

- Army MARS fits into a chain of command. 10 Region Directors report to the CAM.
- Chief of Army MARS reports to the Network Enterprise Technology Command (NETCOM), which operates the U.S. Army's worldwide computer and communications networks.
- NETCOM in turn has vertical links to the Army Cyber Command, Which is charged with network protection and the Army's Chief Information Officer/G5, who reports to the Secretary of the Army.





# When is Army MARS Activated? **WORST DAY SCENARIOS**

MARS members might be working with regular Army units assigned to the Army Northern Command, or with State/Federal agencies that have requested Defense Support to Civil Authorities (DSCA).

Haiti mission, where among other things, I ran an RMS WL2K End Node at Ground Zero for MARS.



**The Voice of  
the Army**

# OPERATING MODES



- VOICE: single sideband
- CW (Region Two Only)
  
- Digital waveforms:
  - Computer Sound Card
    - Mil Standard
      - 188-110 Phase Shift Keying (PSK), FEC
      - In-Line Encryption
  - Hardware Modems
    - Rapid M, Harris, ...
    - 188-110 Phase Shift Keying



The Voice of the Army

# MARS and Amateur Radio Operators



Amateur Radio operators represent the nation's reservoir of electronic experts. MARS is a military auxiliary that utilizes this resource for Defense. It is through the service of these citizen volunteers that AMARS can accomplish its mission.

The Voice of the Army

# MARS & Amateur Radio Operators

**AMARS looks to Amateur Radio to provide human resources that are knowledgeable and skilled in the following areas:**

- **Communicating effectively and concisely utilizing specific protocols and procedures; improvising and adapting existing guidance to new or unanticipated conditions.**
- **Operating and maintaining telecommunications technology, including HF radio equipment and antennas.**
- **Utilizing computer equipment in conjunction with radio transceivers; installing and updating of software, soft-modems, operating systems; and maintaining and securing computer Systems.**

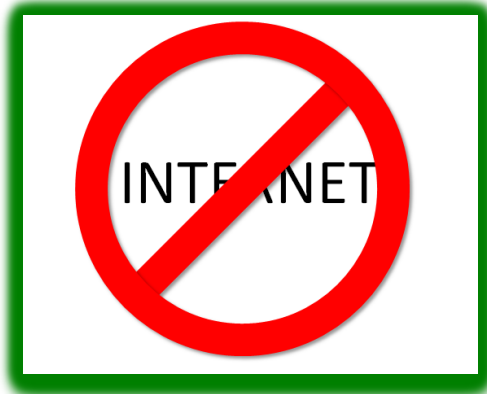


**The Voice of the Army**



# Communications Exercise

- We simulate a total loss of Internet and landline communications throughout the New York and New Jersey areas due to a denial of Cyberspace, Electrical, and Telecommunications infrastructure, for a prolonged period.

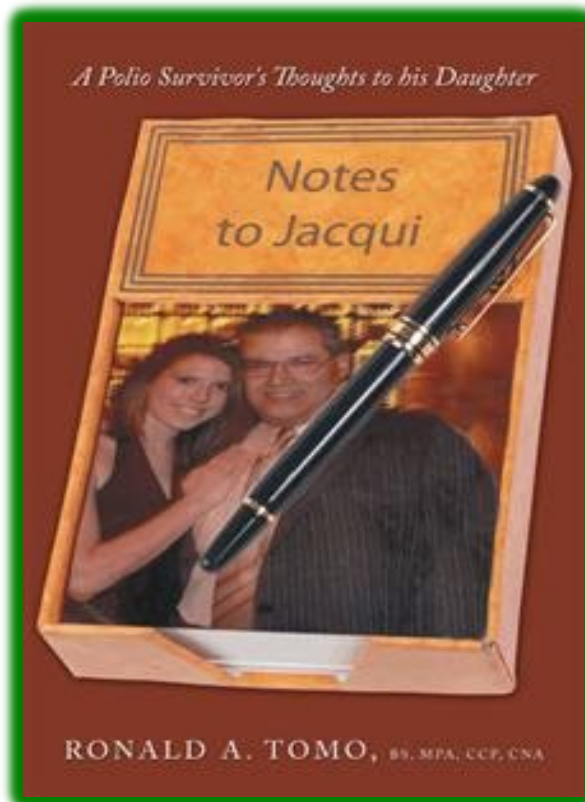


The Voice of the Army

# Thank You ! Questions?



Ron Tomo  
516.652.0120  
Ron@RonTomo.org



## Amateur Radio

Bringing the World Together in Peace

Remembering the World Trade Center Disaster  
11 September 2001

# KE2UK

Ronald A. Tomo  
1049 Barbara Court  
NORTH BELLMORE, NY 11710  
USA  
Loc: EN30fq ITU: 8 CQ: 5 NASSAU County  
IOTA: NA-026  
MARS - AAT2BC 5Y SOP - AAT2BC WL2K  
WAZ, DXCC, WAS, WAC, CP-20  
QCWA, LIORP, ARRL MARS, FISTS  
ARRL 2010 International Humanitarian

To: K6BLG This confirms our 2-way FT8 QSO  
Date: September 16, 2019 Time: 14:55 UTC  
Band: 20m UR Sigs: -17  
FT8 SENT: -17 RCVD: -18



[WWW.ARMY.MIL](http://WWW.ARMY.MIL)

THE OFFICIAL HOMEPAGE OF THE UNITED STATES ARMY



**Dedicated to My Dad  
Armando Louis Tomo, PFC  
1922 ~ 2001 RIP**

**US ARMY WW II  
257<sup>th</sup> Combat Infantry Team  
343 FA Bn.**

**Normandy Invasion  
D-Day 2<sup>nd</sup> Wave  
6 JUNE 1944**

**Battle of the Bulge  
DEC/JAN 1944/45**

**5 European Theater  
Battle Stars**



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