



NAVY AND MARINE CORPS SPECTRUM OFFICE CENTRAL BAHRAIN

**32nd Annual USN/USMC Spectrum
Management Conference**



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OVERVIEW



- Mission
- Operational Chain of Command
- Tactical Chain of Command
- Functional Areas
- Challenges



MISSION

- Provide Afloat, Ashore, and Joint Electromagnetic Spectrum Management. Maintain overall management and control of all Naval Spectrum within the CENTCOM AOR in support of Navy, Marine Corps, Joint and Coalition forces



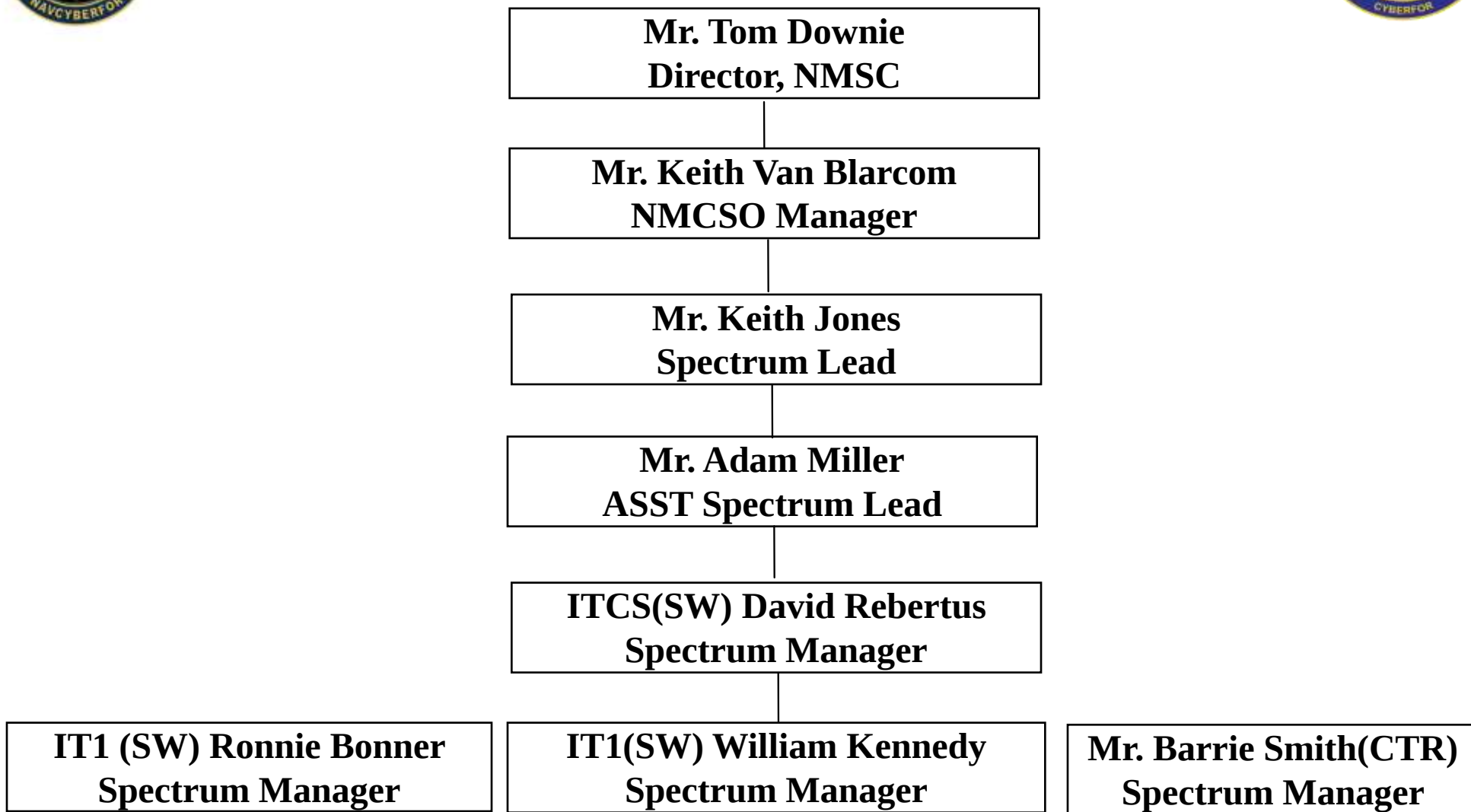
OPERATIONAL CONTROL (OPCON)



- NMCSO CENT falls under the OPCON of our parent command Navy and Marine Corps Spectrum Center.



OPCON CHAIN OF COMMAND



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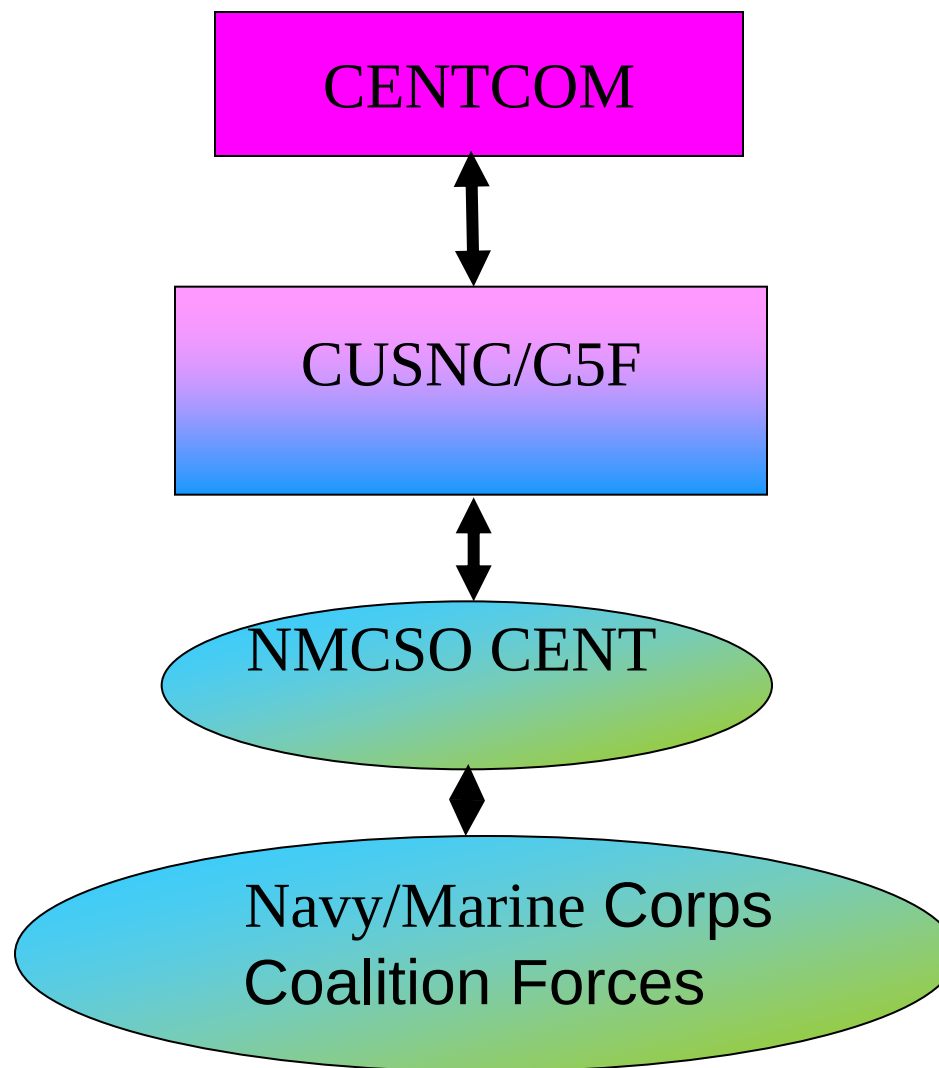
TACTICAL CONTROL

- NMCSO CENT is under the Tactical Control of CUSNC/C5F N6 for all Spectrum Management related functions and tasks
- Re-working MOA for approval

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TACTICAL CHAIN OF COMMAND



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CENTCOM AOR

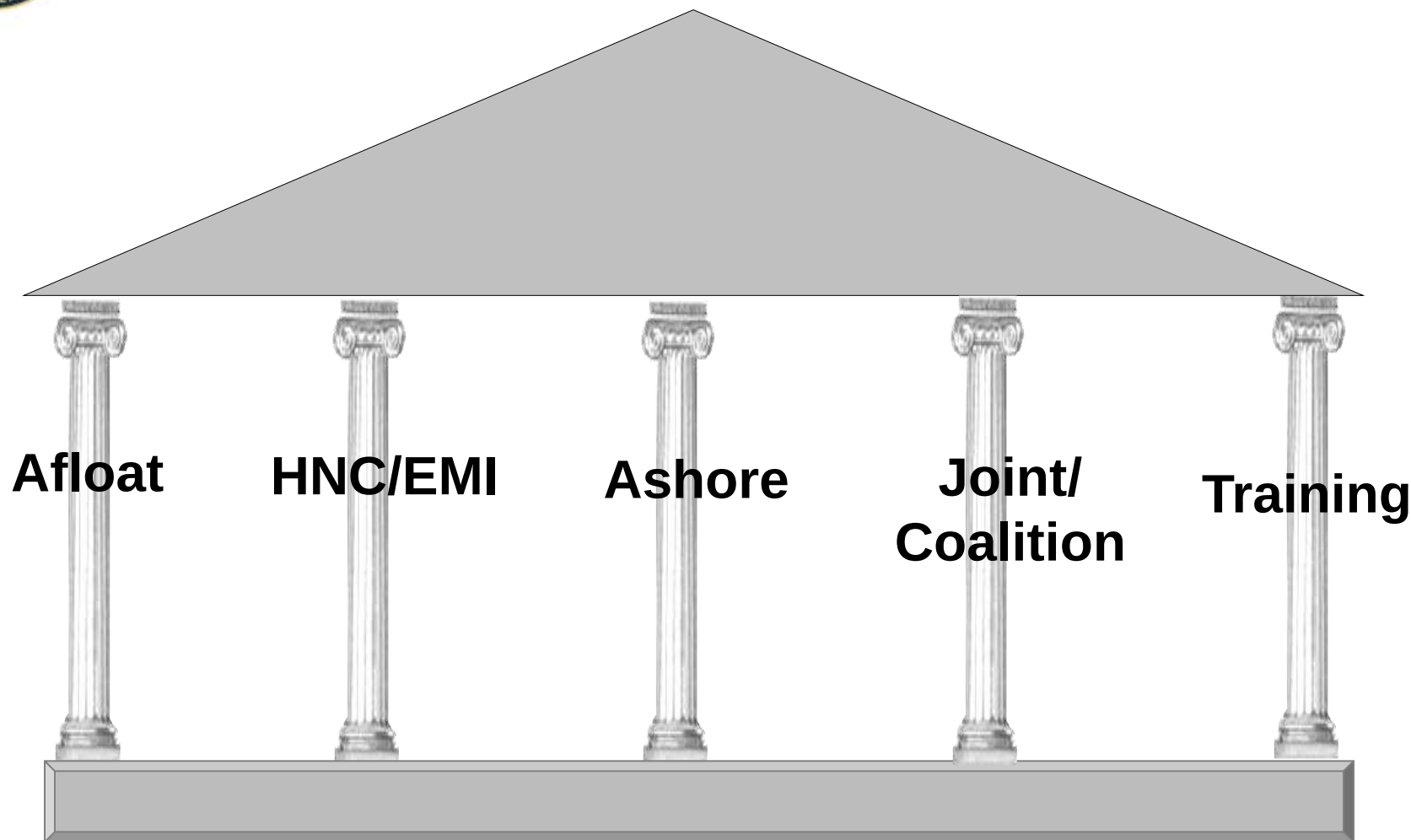


21 Countries, 3 major bodies of water (Arabian Gulf, Arabian Sea, Red Sea), occupying ITU Regions 1 & 3.

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Functional Areas



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AFLOAT



- Develop and maintain CSG, ARG, U.S./Coalition OPTASK COMM plans.
- Assign and maintain Tactical Air Navigation/Land Launch/Homer frequencies as required. **COORD with NMCSO EUR for NATO ships. Incorporating into AESOP.**
- Maintain and update C5F RADAR Restrictions. **Periodic changes made depending on GCC new systems.**
- Process frequency requirements to CENTCOM and AFRICOM JFMO'S. **One stop shopping.**
- Review CTF 50 U.S. and Coalition monthly AESOP Radar Plans. **This has paid off handsomely.**

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AFLOAT CONT.



Current OPTASK COMMS

- ESF - 1
- CSG - 4
- ARG - 3
- CTF - 6
- CTG - 4
- NSA BHR -1

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Host Nation Coordination/EMI



- Coordinate with DWLFM for host nation approval of spectrum resources in the Kingdom of Bahrain.
- Represent CUSNC/C5F as members of the U.S. Delegation to the semi-annual GCC member States and DOD Radar Interference and Frequency Coordination Conference
- Host the U.S. only preparatory meeting of the GCC EMI resolution working group

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HNC/EMI CONT.

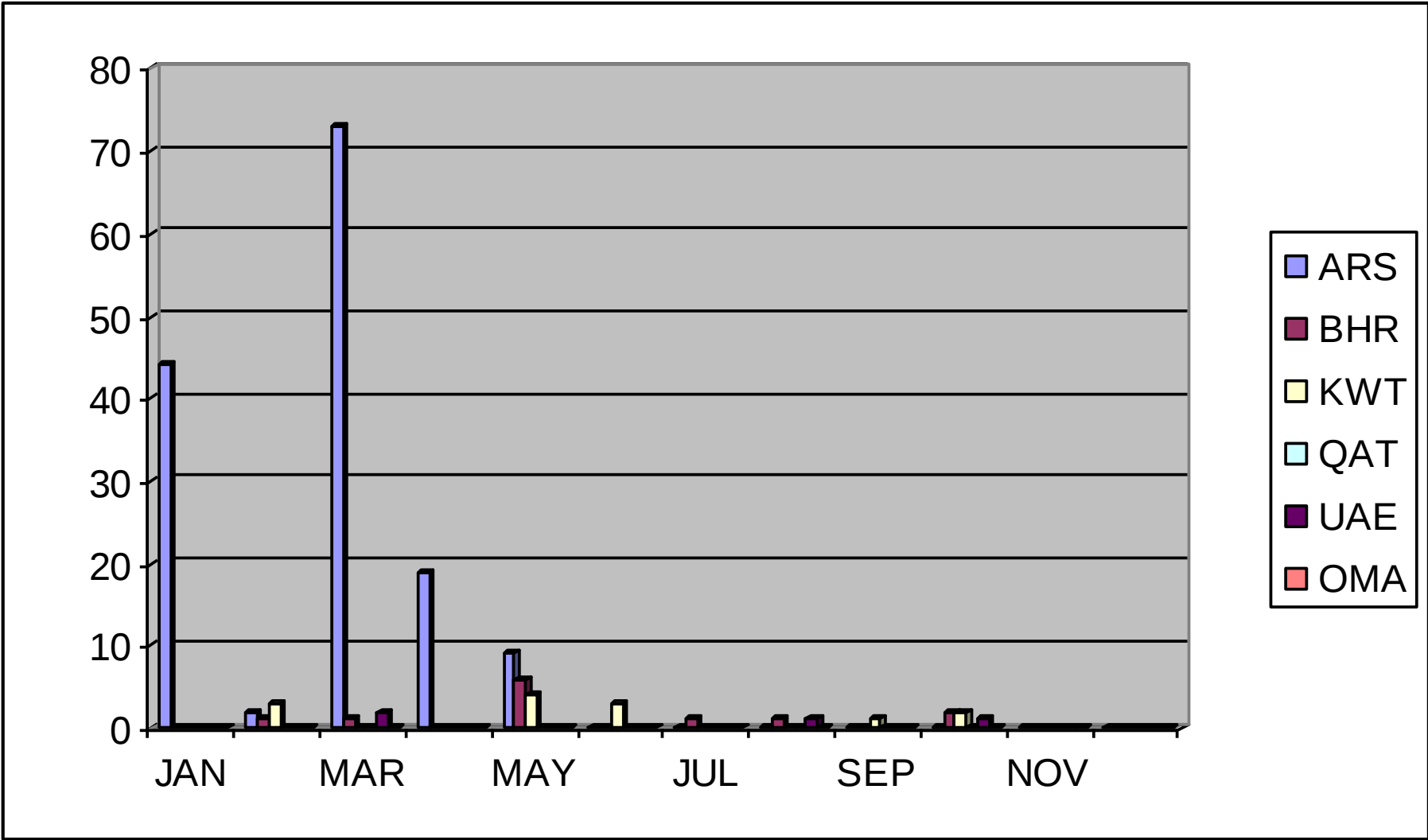


- Brief all RADAR EMI reports and spectrum supportability requirements at the regional semi-annual GCC conferences. **GCC requested to expand interference reports. CENTCOM drafting new charter for the conference.**
- Respond to, track and resolve RADAR EMI reports reported by GCC Countries. **No reports received since MAR 2010.**
- Provide on call (24/7) person to address EMI issues reported by GCC Countries. **C5F requirement**

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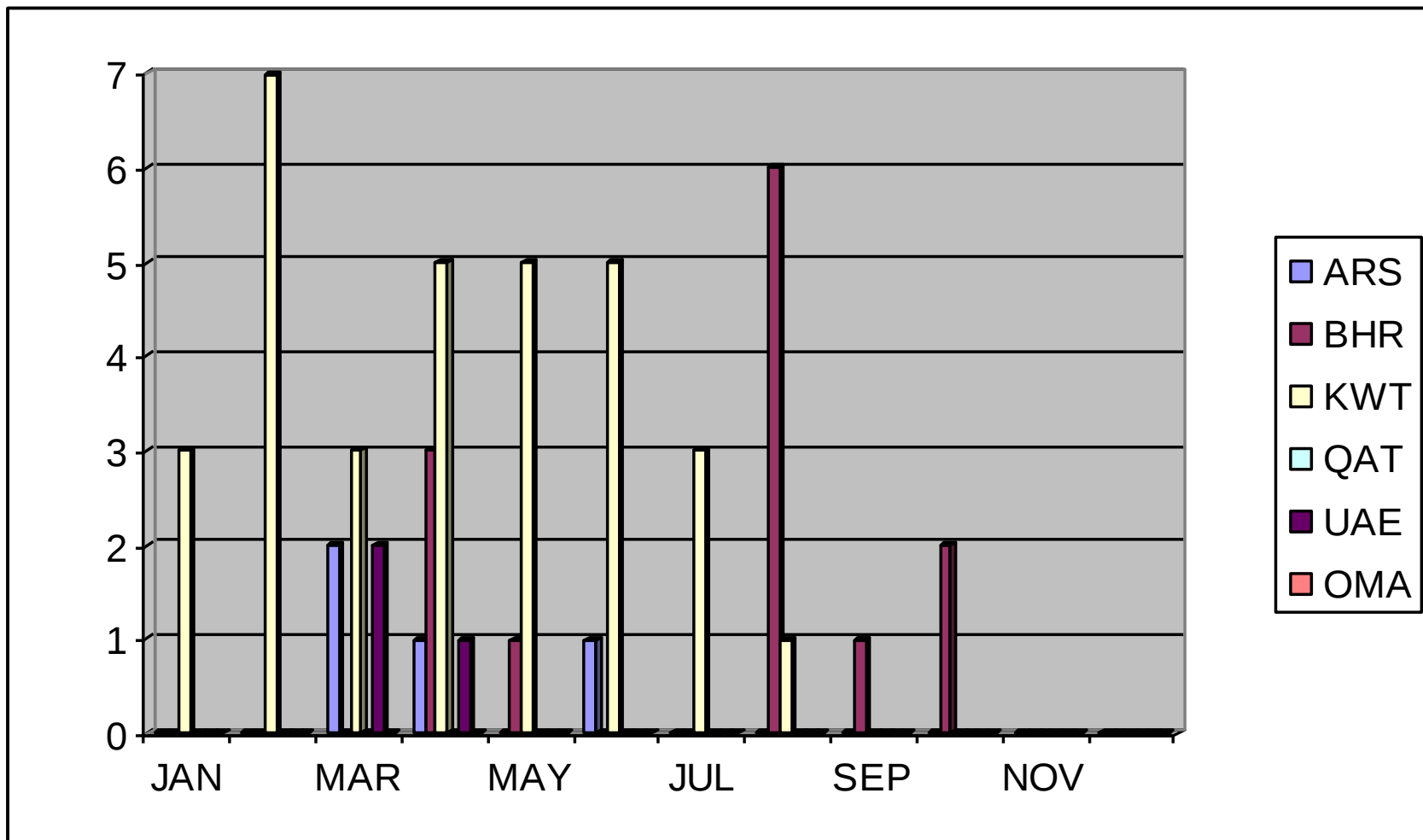
2008 GCC COUNTRIES EMI



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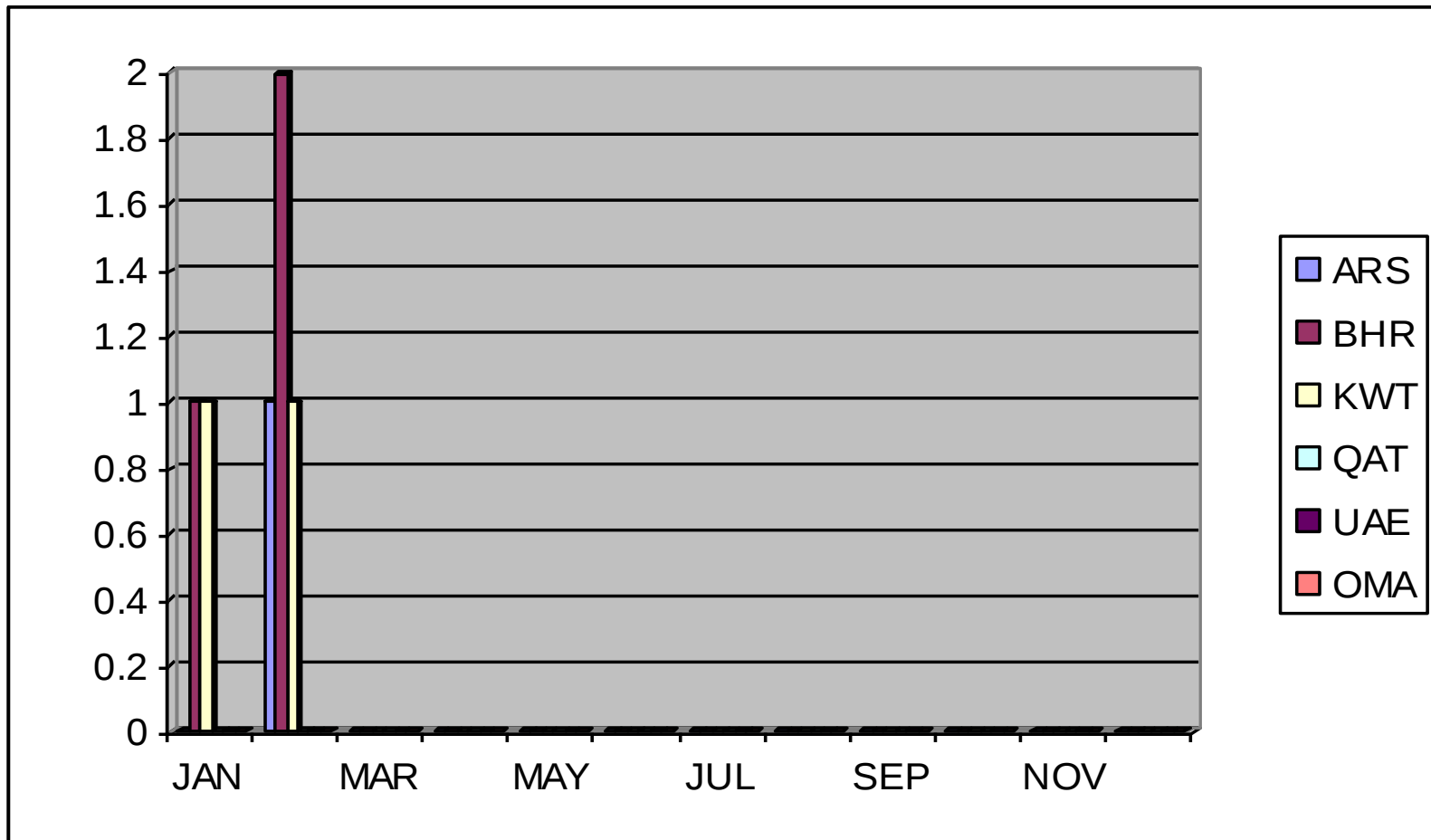
2009 GCC COUNTRIES EMI



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2010 GCC COUNTRIES EMI



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CENTCOM Spectrum Interference Resolution Reporting System (CSRS)

<https://hqsdbs05.centcom.smil.mil/csrs/Welcome.aspx>

C S R S

USCENTCOM Spectrum Interference Resolution Reporting System
Version 2.0

[Click Here to Submit a JSIR Report](#)

[Click Here to Search JSIR Reports](#)

Use this page to report instances of interference to authorized radio frequencies
IAW Current CENTCOM Spectrum SOP: [SPECTRUM 1 - USCENTCOM Spectrum Interference Reporting Process](#)

Always attempt to resolve radio frequency interference with your local frequency manager prior to initiating a formal JSIR.

When submitting a JSIR via this webpage select the SIPR email address for the frequency manager to your higher headquarters.

If you are having problems with this site or its use, call the Support number below to contact our helpdesk.

Request Support, call Spectrum Interference Resolution Manager (SIRM): 318-436-2576, VOSIP 308-436-3067

The address of this SIPRNET page is <http://hqsdbs05.centcom.smil.mil/csrs/Welcome.aspx>

Component Frequency Management POCs are available at: [AOR Spectrum Manager POC List](#)

Installation Spectrum Manager POCs are available at: [Installation Spectrum Manager POC List](#)

Emergency POC phone contact is DSN 312-651-5366

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GCC COUNTRIES

- Bahrain
- Kuwait
- Oman
- Qatar
- Saudi Arabia
- United Arab Emirates

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GSM NETWORK

- Host Nations Will Not Approve Frequencies in these Bands
- GSM 900 and 1800 MHz Used Throughout AOR
GSM 900 = 880-915 MHz U/L, 925-960 MHz D/L
GSM 1800 = 1710-1785 MHz U/L, 1805-1880 MHz D/L
- IMT 2000/3G GSM = 1880-1990 MHz (future)



ASHORE



- Responsible for the day-to-day management and control of Naval Spectrum for NSA Bahrain, AVUNIT and ISA AB.
ISA ramping up with Marine AVUNIT
- MARCENT will stand up soon with SM to handle Marine CORPS requirements shore requirements
- Maintain and manage the COCOM mandated continuing review of temporary frequencies
- Interpret National and International, (Government and Non-Government), rules and regulations to ensure SM conformance throughout the AOR



JOINT/COALITION

- Responsible for the day-to-day management of Naval Spectrum in support of Joint operations
- Deploy as the Joint SM support, as required or directed, to Joint Task Forces and/or Joint Spectrum Management Elements (JSME)
- Assist in the development and publication of the JCEOI for Contingencies **(1 person trained)**
- **Distribution point for CJSMPPT laptops**
- Interpret National and International, (Government and Non-Government), rules and regulations

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TRAINING

- Responsible for all Naval and Joint SM Training requirements
- Assist AOR spectrum managers, and other spectrum users with existing policies and procedures
- Provides training;
AESOP
Spectrum XXI
JACS (1 person trained)
SPEED (No formal training)

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CHALLENGES

- Contractor funding shortfalls
- Military one year tours
- Training funding shortfalls
- PC Refresh (Monitors not covered)
- Ensuring CSG and ARG are aware of requirements while in CENTCOM AOR
- AESOP not real time tool

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ACRONYM LIST

- Afloat Electromagnetic Spectrum Operations Program (AESOP)
- Amphibious Readiness Group (ARG)
- Bahrain (BHR)
- Carrier Strike Group (CSG)
- CENTCOM Spectrum Interference Resolution Reporting System (CSRS)
- Coalition Joint Spectrum Management Planning Tool (CJSMPT)
- Commander Fifth Fleet (C5F)
- Commander Task Force (CTF)
- Commander Task Group (CTG)
- Commander United States Naval Forces Central Command (CUSNC)
- Central Command (CENTCOM)
- Combatant Commander (COCOM)

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ACRONYM LIST CONT.



- Director Wireless Licensing Frequency Monitoring (DWLFM)
- Electromagnetic Interference (EMI)
- Expeditionary Strike Force (ESF)
- GLOBAL System for Mobile Communications (GSM)
- Gulf Cooperation Council (GCC)
- Host Nation Coordination (HNC)
- Joint Automated CEOI System (JACS)
- Joint Frequency Management Office (JFMO)
- Joint Spectrum Management Element (JSME)
- Navy Marine Corps Spectrum Office (NMCSO)
- Naval Support Activity (NSA)
- Operational Control (OPCON)
- Spectrum Management (SM)
- Spectrum XXI (SXXI)
- Tactical Control (TACON)

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QUESTIONS?

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