



NAVY AND MARINE CORPS SPECTRUM OFFICES (NMCSSO)



SHORE SUPPORT

**(INSTALLATION SPECTRUM MANAGER (ISM)/FLEET
SUPPORT)**

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Report Documentation Page

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NMCSO Mission



- The NMCSO is responsible to ensure USN/USMC access to and effective use of the electromagnetic spectrum in national security and military operations.
- This support includes three primary areas:
 - implement and enforce DOD and DON spectrum management policy and guidance;
 - provide afloat, **shore, joint spectrum management support and training;**
 - provide support to Navy Marine Corps Spectrum Center (NMSC) which serves as the DON center of excellence for matters pertaining to electromagnetic spectrum management.



NMCSO Spectrum Mgmt



- NMCSO Offices provide Regional shore support
 - Supporting COMTHIRDFLT and COMSEVENTHFLT
 - Base/Facility/installation
 - Coastal Areas – SECONDFLT, THIRDFLT, FOURTHFLT, SEVENTHFLT, I, II and III MEF units
- Naval Telecommunications Publication 6 (NTP-6)
- CLF/CPF OPORD 201/2000 Annex K
- C3F OPORD 201 Annex K / C7F CEI Annex K/COMUSNAVEUR 4000
- Marine Corps Order 2401.2A (07Oct2009)
- Other OPORD (COMPATWINGPAC/TSCOM, SUBPAC, ...)
- ISM Instructions



NMCSO Spectrum Mgmt Cont.



- AESOP – OPTASKCOMMS CSG/ESG baseline plans
- Frequency Request
 - Receipt/Initiation
 - Coordination
 - Submission to NMSC/NTIA
 - Back brief user
- Equipment Certification (DD1494/JF12)
- RFI/EMI (Joint Spectrum Interference Report (JSIR))
- EW / EA / GPS EA / CREWS Clearance request



NMCSO Regions

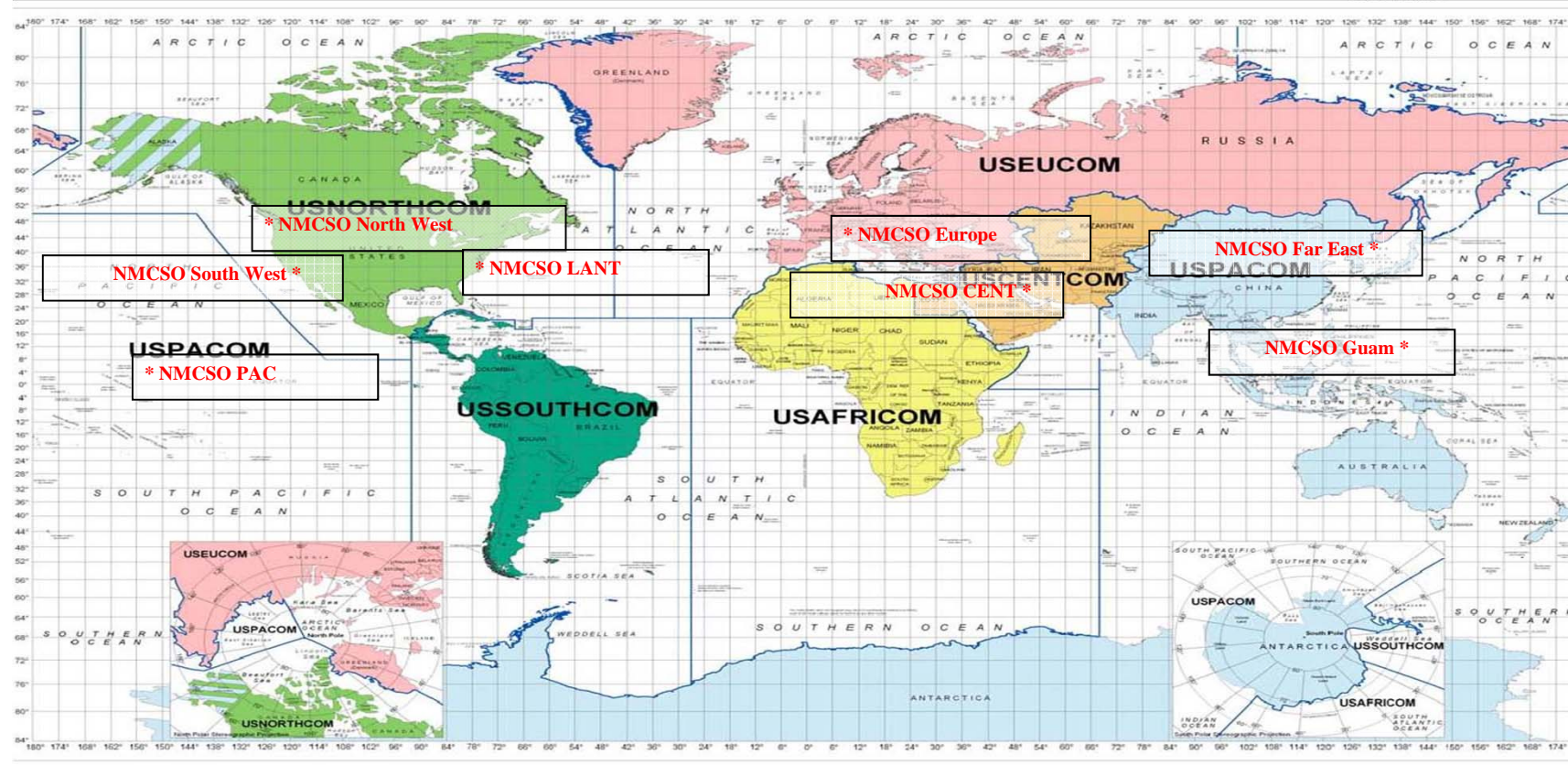


THE WORLD 1:60,000,000

THE WORLD WITH COMMANDERS' AREAS OF RESPONSIBILITY

EDITION 8 NGA
BASED ON
UNIFIED COMMAND PLAN
17 DECEMBER 2008

SERIES



RIES 1107
ITON 8 NGA



PREPARED AND PUBLISHED BY THE
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ST LOUIS, MO
Map information as of 2008

State of Alaska assigned to USNORTHCOM's
Area of Responsibility. Forces based in Alaska
remain assigned to USPACOM.

1:60,000,000
MILLER CYLINDRICAL PROJECTION

Users should refer corrections, additions, and comments to the NSA Enterprise Service Desk: 1-800-455-0899. COMMERCIAL: 301-227-9811. OSN: 287-9811.

* West Bank and Gaza Strip - "Israel-occupied with current status subject to the Israeli - Palestinian Interim Agreement - permanent status to be determined through further negotiation."

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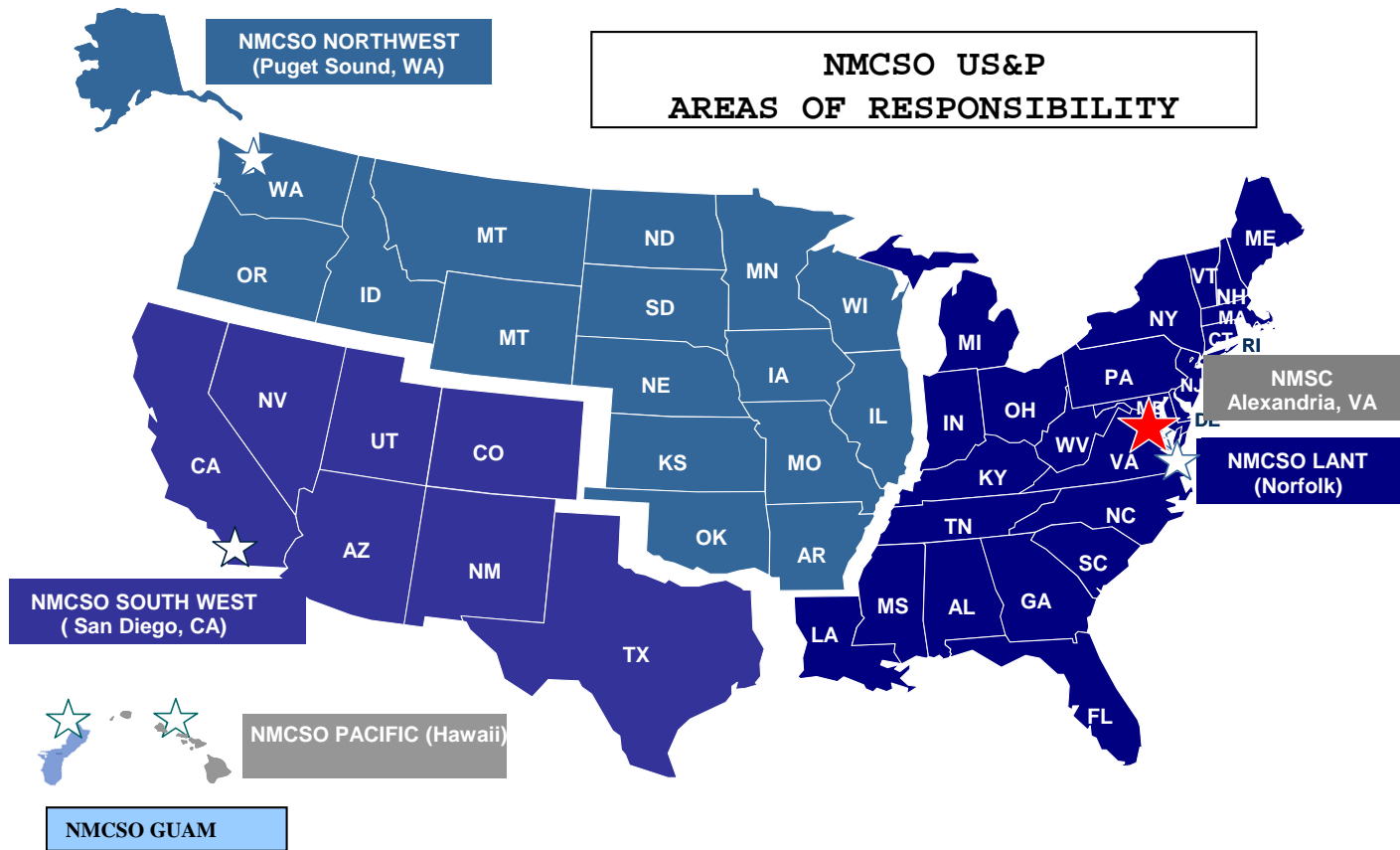
MAP EFFECTIVE 17 DECEMBER 2008

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NMCSO Regions U.S. & Possessions





Spectrum Management

Two Part Process



Certification (DD1494/JF12)

- Regulations Compliance
- Allocations Compliance
- Standards Compliance
- What other systems are in band?
- Spectrum availability to support requirement?
- Host Nation supportability and coordination
- License to procure

Freq. Assignment, (SFAF)

- Approval to use a specific channel/frequency in a specified manner
- License to radiate





Frequency Assignment



- Frequency assignment is the second part of the two part process of authorizing a system or equipment to radiate using the electromagnetic spectrum.
- A frequency assignment is the “license to radiate” on a discrete frequency or frequencies within a specified set of constraints, such as power, emission bandwidth, location of antenna, operating time of day, etc.
- All Radio Frequency (RF) emitters must have an approved frequency assignment prior to conducting testing, evaluation or operations within the US&P or in foreign countries.



Frequency Assignment Cont.



- Reference appropriate fleet guidance on frequency submission request. Follow Chain of Command on submission request:
 - NTP-6
 - Marine Corps Order 2401.2A
 - COMSEVENTHFLT iaw C7F C2000.1J
 - COMTHIRDFLT iaw APP 8 to Annex K to C3F OPORD 201
 - COMSUBPAC Annex K
 - FACSFAC OPTASK LINKS
 - SOPA Instructions
 - National and International policy variations



Radiation Restrictions



- Frequency assignment authorization to transmit (RADAR or Comms in port) (FACSFAC, SUBPAC, MIDPAC, ATG, NCTAMS, etc)
- SOPA Instructions (Communications, Emergency Dispersal, and Heavy Weather).
- Regional Regulations for HERO
- AESOP Spectrum Restriction Policy for Radar/Communications
- Keep Current



AESOP & CSG/ESG Plans



Afloat Electromagnetic Spectrum Operations Program

- Mandated by CNO WASHINGTON DC/021532ZMAY2005
- All afloat communications and radar plan development, modification, and dissemination with AESOP.
- NMCSO responsible for coordination and maintenance of frequency assignments and standard CSG/ESG plans working in conjunction with Fleet.
 - NTP-6
 - ISM
- Regional NMCSO responsible for coordination of in port use of frequencies.
- Discontinue use of legacy CSG plans. Guidance forthcoming.(Pubs)



NMCSO Pacific Points of Contact



Mr. Randall Hall, N3SO, Supervisor
CML (808) 477-9609, DSN 477-9609

Randall.s.hall@navy.mil (unclassified)

Randall.hall@navy.smil.mil (classified)

EMAIL DISTRO (GROUP):

NCTP_NMCSOPAC@NAVY.MIL
(UNCLAS)

NCTP_NMCSOPAC@NAVY.MIL
(CLASSIFIED)

CHATNET (SIPRNET) RM/NETWORK:
(REQUEST IP)

#NMCSOPAC_SPECTRUM

ALSO MONITORS

#NCTAMS_PAC_JFTOC

COLLABORATION AT SEA (CAS) SPECTRUM
MGMT SITE: (SIPRNET ONLY)

HTTP://WWW.PR.CAS.NAVY.SMIL.MIL/DON/SO/SIT
E.NSF/

MESSAGE PLAIN LANGUAGE ADDRESS:

DMS(SC) NMCSO PAC HONOLULU HI(SC)

DMS(UC) NMCSO PAC HONOLULU HI(UC)

LEGACY PLA: NMCSO PAC HONOLULU HI//N3SO//

FAX: CML (808) 477-7214 DSN 315 477-7214



NMCSO North West Points of Contact



- **Mr. Russell Potter, Lead Spectrum Manager,**
- **CML (360) 396-7075, DSN 744-7075**
- **Russell.potter@navy.mil (unclassified)**
- **Russell.potter@navy.smil.mil (classified)**

- **Email Distro (group): bang_nctsp_nmcso@navy.mil (unclas)**
- **nmcso_puget_sound@navy.smil.mil (classified)**
- **Collaboration At Sea (CAS) Spectrum Mgmt Site: (SIPRNET ONLY)**
 - ♦ **<http://www.pr.cas.navy.smil.mil/don/so/site.nsf/>**
- **Message Plain Language Address:**
 - ♦ **DMS NMCSO PUGET SOUND WA (SC)**
 - ♦ **DMS NMCSO PUGET SOUND WA (UC)**
- **FAX: CML (360) 396-6321 DSN (312) 744-6321**
- **Mailing address:**
- **NMCSO NORTHWEST PUGET SOUND, WA.**
- **1100 HUNLEY RD., SUITE 116**
- **SILVERDALE, WA. 98315-1099**
- **After Hours Contact:**
- **Cell Phone (360) 509-1773**



NMCSO South West Points of Contact



- **Ms. Rena Karas, Telecommunications Supervisor,**
- **CML (619) 545-9978, DSN 735-9978**
- **Rena.karas@navy.mil (unclassified)**
- **Rena.karas@navy.smil.mil (classified)**
- **Email Distro (group):**
- **SDNI_DL_NCTSSD_NMCSO_SOUTHWEST@NAVY.MIL (unclas)**
- **SDNI_DL_NCTSSD_NMCSO_SOUTHWEST@NAVY.SMIL.MIL (classified)**
- **Collaboration At Sea (CAS) Spectrum Mgmt Site: (SIPRNET ONLY)**
 - ♦ **<http://www.pr.cas.navy.smil.mil/don/so/site.nsf/>**
- **Message Plain Language Address:**
 - ♦ **DMS NMCSO SAN DIEGO CA (SC)**
 - ♦ **DMS NMCSO SAN DIEGO CA (UC)**



NMCSO South West Points of Contact Cont.



- **FAX: CML (619) 767-7651 DSN 735-7651**
- **Mailing address:**
- **NAVCOMTELSTA SAN DIEGO CA**
- **ATTN RENA KARAS**
- **BLD 1482 NAS NORTH ISLAND**
- **PO BOX 357056**
- **SAN DIEGO CA 92135 7056**
- **After Hours Contact:**
 - **Primary: CWO at NCTS San Diego 619 545-8928**
 - **Alternate: FWO at C3F Pt Loma 619 767-4404**
 - **SPECTRUM XXI ACCOUNT:**
 - **NMCSO SOUTHWEST**



NMCSO Guam Points of Contact



- **Mr. Robert E. Hedrick Jr. , Telecommunications Manager**
- **CML 671-355-5066, DSN 315-355-5066**
- **Email: robert.hedrick@fe.navy.mil (unclassified)**
- **Email: robert.hedrick@fe.navy.smil.mil (classified)**
- **FAX: CML 671-355-5010 DSN 315-355-5010**
- **Email Distro (group): M-GU-NMCSO@fe.navy.mil (unclas)**
- **(Classified) M-GU-NMCSO-GUAM-GS@fe.navy.smil.mil**
- **SPECTRUM XXI ACCT: NMCSO GUAM**
- **Chatnet (SIPRnet) Room/Network: (request IP):**
- **Collaboration At Sea (CAS) Spectrum Mgmt Site: (SIPRNET ONLY)**
- **<http://www.pr.cas.navy.smil.mil/don/so/site.nsf/>**
- **Message Plain Language Address: Mailing address: NCTS GUAM**
- **DMS NMCSO GUAM GU (SC) ATTN NMCSO GUAM**
- **DMS NMCSO GUAM GU (UC) PSC 488 BOX 101**
- **FPO AP 96537-1800**



NMCSO LANT

Points of Contact



- **Janet Baker / NMCSO LANT SUPERVISOR**
- **757-836-8010 DSN 836**
- janet.baker@hq.jfcom.smil.mil
- janet.baker@jfcom.mil
- janet.m.baker1@navy.mil
- **SXXI: NMCSO LANT N01**
- **701/956: JMB**
- **Commanding Officer NCTAMS LANT**
Attn: 01SO/NMCSO
9625 Moffett Ave
Norfolk, Va 23511-2784
- **SXXI Account: NMCSO LANT**
- **Collective: nmcsolant@jfcom.mil**
nmcsolant@hq.jfcom.smil.mil
- **Chat Room: #comm_coord**
Server: 205.0.216.51
- **NREMS PLAD: NMCSO LANT NORFOLK VA**
- **NMCSO LANT NORFOLK FAX**
- **Unclas Fax: 757-836-8022 DSN 836**
- **Class Fax: 757-836-8023 DSN 836**



QUESTIONS?

Spectrum Management Challenges for the 21st Century



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