



NEWS

naval meteorology and oceanography

April 2, 2013

Commander's Corner

'Thanks' for Outstanding Work by NMOC Team

By Rear Adm. Brian Brown
A few words of thanks ...

As our leadership continues to work through the impacts of sequestration, current and future years' budgets, and the shape and size of our DoD and DoN force, I am thankful that our team has kept our eye on the ball and has not missed a beat in support of our operational forces despite all the churn. On behalf of those we support, including those in our own ranks, forward and in harm's way, I thank each you for your commitment and dedication to our mission.

I want to personally thank those involved with the recent visit of U.S. Fleet Forces to Stennis Space Center. You hit the ball out of the park on Adm. William Gortney's first visit to CNMOC, NAVO, NOOC and the Echelon V commands that call Stennis their home. This was the most focused, professionally executed VIP visit I have participated in during any of my tours here; I want all involved to know that I recognize the level of effort undertaken to make the visit go so smoothly. Adm. Gortney was pleased. Thank you.



I also want to thank my cyber security force for all you are doing to keep our information systems secure – **I'm talking about all of you.** Minding Common Access Cards (CAC), refraining from plugging in unauthorized USB devices, maintaining tight physical security in your spaces, and paying attention to your browsing and e-mailing practices are the cornerstone to keeping our critical information systems and data secure. A special thanks goes to our information assurance and information systems personnel at CNMOC, USNO, FNMOC, and NAVO for their outstanding performance during recent cyber security inspections by Fleet Cyber Command. Nothing about these inspections is easy, considering the complexity of our systems. While the final scores may show some areas we need to work on, the real measure of success came from the cyber inspectors who couldn't say more about the professional execution of our cyber security program and the dedication of our team. Bravo Zulu.

Lastly, while our operational oceanography forces are busy forward or working diligently in the rear 24/7 to provide reach back products and services in support of our national security mission, there are a number of unsung heroes I'd like to thank who work tirelessly to keep our program intact – the men and women in our human resources, comptroller, administrative, training, plans and policy, and requirements shops. As you can imagine, with the uncertainty in budgets, potential furloughs/negative personnel actions, and constant data

calls from above, these teams have been stressed and stretched to the maximum in the past few months. Despite all the additional pressure, uncertainty, and compressed timelines, they continue to execute flawlessly in every command across NMOC. I cannot say enough how important their work is to our mission and how much they add to the increased advocacy by our leadership (and often additional resources!). Thank you.

Happy spring to each of you. I couldn't be prouder to be a part of the NMOC team. Keep pressing!

Warm regards, B

From the Deputy/Technical Director

Roadmaps Describe Future of BonD Capabilities

By Dr. William H. Burnett

"Well, we know where we're goin,' but we don't know where we've been."
--*Road to Nowhere*, Talking Heads

Growing up, my family would take long trips from Oklahoma to West Virginia every year. Since we would drive the entire way, Dad would reenroll as a member in the "Triple A" (the American Automobile Association) and receive regional maps of the United States. We would then pore over the maps for hours to plan our route, figure out where we would stop for gas and food and visit any tourist sites that we hadn't seen before. To me, the maps seemed like an escape from the mundane.



When I first came to CNMOC in 1996, I remember hearing one of Vice Adm. Paul Gaffney's (then rear admiral) strategic planning briefs. He drew two points on a white board; one point indicating a starting point, and the other indicating the end point. He said that the most important point on the white board was the end point -- to know where you want to be at some time in the future. Vice Adm. Gaffney then drew a number of lines from the starting point to the end point; one a direct line and other lines showing various and, sometimes, sinuous routes. The point he was trying to make is that you might take a completely different route (strategically) to get to the end state, but you will eventually get there if you know where you are supposed to end up. Too many times, we head out on a certain path without really knowing where we are supposed to go.

From 1996 through 2004, the CNMOC Plans and Programs Division was in charge of developing strategic roadmaps to help the command understand and appreciate where CNMOC was going to be in the next five to 10 years. The effort culminated in the CNMOC Mid-Long Range Strategic Plan (2001–2011) that described CNMOC's strategic goals for all aspects of the command. Unfortunately, the plan did not foresee the major reorganization that occurred in 2004-2005, which caused the entire plan to be reworked.

The CNMOC staff is in the process of updating our roadmaps based on our strategic goals and Rear Adm. Brian Brown's vision through the next 10 years. Instead of the roadmaps being focused on mission-based capabilities (i.e, mine warfare or anti-submarine warfare, etc.), the roadmaps will be aligned to the Operational Oceanography Program's Battlespace on Demand (BonD) tiers: Tier 0 – observation and measurements; Tier 1 – the predicted environment; Tier 2 – impacts of the environment on sensors, platforms and personnel; and Tier 3 – impacts to the fleet/forces and courses of action. The roadmaps within each BonD tier will support both the CNO's sailing directions and navigation plans -- Warfighting First, Operate Forward and Be Ready. As the roadmaps are finalized and published for comments, please take the time to review the information and provide me with your comments, questions or concerns. Just like I did with my Dad many years ago, I want to make sure we pore over the maps to plan our future.

From the Command Master Chief

Want to be a Chief?

By Master Chief Aerographer's Mate (IDW/AW/SW) Ken Walker
NMOC Team,

The results for this year's CPO exam have been released, and I would like to congratulate all of the first class petty officers who are selection-board eligible. As I started thinking about the board-eligible list and the Career Development Boards that are soon to follow, I began to ponder what it takes to become selected for chief petty officer. The short answer would be — read the precept for a CPO selection board, but I offer some of my personal thoughts below.

Advancement opportunities are unstable, missions are moving, programs are changing and the Navy is continually restructuring. In times of dramatic and persistent change, there must be core guidelines that outline a Sailor's path to success. I have given this a great deal of thought and firmly believe that the same things that worked for the Sailors already wearing anchors will work in today's Navy. Embracing the CPO competency areas listed below will greatly improve your opportunities in the Navy, and beyond.



- **Mentorship** is not just a buzzword; it is a valuable process directed toward the personal and professional development of Sailors. What have you done to better prepare your Sailors for the rapidly changing environment of the future? Do they have a personal development plan and someone to help keep them focused on that plan (a mentor)? Determine what you can do to better those around you; make a plan and then execute it.
- **Collateral Duties and Command Involvement** are the marks of a dedicated Sailor. They demonstrate a willingness to assume additional responsibility and a commitment to the command and the Navy. The scope of the duty (command vs. department/division) matters, but realize that you must start somewhere and earn the trust and confidence of your leadership. Take what you can get and then do the best you can with it, regardless of the prestige level. Merely possessing the title of a collateral duty will do you no good. Take the program, improve it, and leave it better than it was when you took it. Also, be cautious in volunteering for more than you can handle. Having too many collaterals to run them properly can quickly turn into a negative situation.
- **Primary Job Performance** must be consistently outstanding. This is the primary competency and should be your first priority. Before you expand your scope of responsibility you must become a master of your rating. Hit the books, ask questions, and live on the E-Learning web sites the Navy provides. Before someone can be an effective mentor, he or she must first become the expert. Never be satisfied with the status quo, challenge all assumptions, and always strive to find more effective or efficient methods for accomplishing the mission.
- **Off-Duty Education.** Navy leadership realizes that an educated Sailor is a better Sailor. There was a time when a college degree was going to become mandatory for advancement, but it was changed because of the lack of opportunity for some ratings to obtain a degree in an equitable fashion. Although that requirement went away, the focus on continual self-development has not. Aerographer's mates learn critical thinking skills and behaviors from AG C-1 school, performing the job and on-the-job-training. College level education is another means we can use to develop those skills and directly enhance the support we deliver to the warfighters. In addition, a college degree could be the tiebreaker between you and someone else when it comes to advancement. Which side of the tiebreaker do you want to be on?

- **Navy Representation.** As soon as you put the uniform on, you became an ambassador of the Navy and the United States of America. Get out into the community and represent them both with pride!

I am still looking for questions. Please send any questions you might have to the CNMOC Public Affairs Office for consolidation (george.lammons@navy.mil), and I will include a Q&A section in future articles.

Keep the Navy safe and the advantage with the warfighters!

From the Enlisted Detailer

Overseas Duty Offers Opportunity

By Master Chief Aerographer's Mate (AW/SW) Mark Mageary, AG Detailer
Good Day, Shipmates!

Are you interested in overseas duty? Overseas duty provides a variety of both personal and professional opportunities. Our community has overseas duty stations that provide support to various warfare areas that will hone your operational oceanography skills and enhance your professional growth. If you are interested in overseas duty, make sure you update your duty preference sheet on CMS/ID, and when you get in your order negotiation window, apply for the billet you are interested in. The requirements for overseas duty are 36 months accompanied and 24 months unaccompanied. There are also possible restrictions such as EFM and PFA.

If you desire to go to C-School, the following AG C-School seats are still available:

- Four seats in the September 2013 class
- Five seats in the October 2013 class
- Five seats in the November 2013 class

As always, if you have any questions please give me a call or send me an e-mail.

Items of Interest

Capt. "Jack" Pingel, Former Commander Dies

Capt. Leon J. "Jack" Pingel, commander of the Naval Oceanography Command from 1983 to 1984, died Feb. 20 in Palm Desert, Calif., after a brief illness.

The Naval Oceanography Command was the forerunner of the Naval Meteorology and Oceanography Command. Pingel relieved Capt. R.E. Hughes in November 1983. He was relieved by Rear Adm. James Koehr, who became the first flag officer to command NMOC.

Pingel was serving as deputy commander when he assumed command. He joined the CNOC staff after serving as commanding officer of Naval Oceanography Command Center, Rota, Spain.

A native of Nebraska, Pingel graduated from Nebraska State College with a degree in accounting. He was commissioned in the Navy in 1957, following graduation from Officer Candidate School in Newport, R.I. He



earned a master's degree in management and a bachelor's degree in meteorology from the Naval Postgraduate School.

He spent 12 years in public school finance following his Navy career.

FWC Norfolk on 2-Pack for a Good Cause

The Navy Wounded Warrior – Safe Harbor program sponsored an Introductory Adaptive Athletics Event in Norfolk last month. As the Naval Station Norfolk 2012 reigning volleyball tournament champions, Fleet Weather Center Norfolk team members were invited to take on several Norfolk Wounded Warriors in a game of seated volleyball. Not many have heard of seated volleyball, but once examined, it elicits an unrivaled sense of admiration for the men and women who have been wounded, both mentally and physically, in service to our country.

Jeffery Short of the Professional Development Detachment (PDD) Atlantic spearheaded the command's involvement. Short is an instructional system specialist and oceanographer at PDD and an avid volleyball player.



“I thought the event was extremely rewarding for FWC participants,” he said. “It gave the wounded warriors an opportunity to compete against other wounded warriors as well as current service members. I felt this event gave us the opportunity to exhibit the true spirit of camaraderie as well as competition.”

The final score was two games to one in favor of the wounded warriors.

FWC-N members take on wounded warriors in a seated volleyball tournament at NAVSTA Norfolk. Seated from left to right: Jeffery Short, WW, Patrick Dixon, AG1 Dustin Covault, AGC James Cummings, WW, AGC Jeremy Richardson. Photo taken by Andrew Byrne.

USNO Dedicates New Correlator

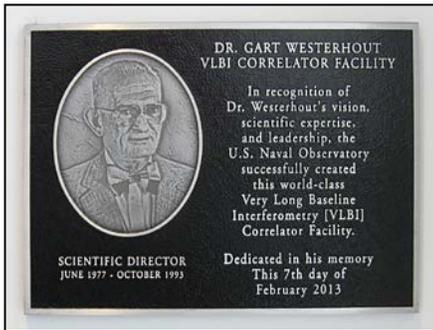
The U.S. Naval Observatory (USNO) has gotten a new software-based correlator that will more efficiently process very long baseline interferometry (VLBI) data.

The new correlator became operational and USNO marked the occasion with a ceremony on Feb. 7 and named the equipment in honor of the late Dr. Gart Westerhout, a pioneer in radio astronomy who served as the USNO's Scientific Director from 1977 to 1993. Dr. Westerhout died in October 2012.

The new correlator uses off-the-shelf hardware as compared to older generations of correlators, which required dedicated, custom-built, integrated circuits. The design change is more economical to build and maintain than past versions.



The Dr. Gart Westerhout VLBI Correlator Facility, used to reduce VLBI data, is key to making a Celestial Reference Frame (CRF). The technique is to simultaneously collect radio signals from distant astronomical objects using widely separated radio telescopes. The data streams from the radio telescopes are processed through the correlator to determine the observed geometric orientation of the individual antennas, which allows for the very precise calculation of the Earth's orientation in space and the sky positions of the radio sources. Earth orientation parameters (EOPs) are used by navigation systems (e.g. the Global Positioning System), communication systems, and by other space-observing systems. The CRF provides the fundamental reference frame for all astronomy, and is used for celestial navigation, precise pointing, the determination of the Earth's orientation in space, and the orbits of Earth's man-made satellites.



USNO began its involvement in VLBI during Dr. Westerhout's tenure as Scientific Director.

Visitors

Korea Meteorological Administration visits Joint Typhoon Warning Center

The Joint Typhoon Warning Center (JTWC) welcomed representatives of the Korea Meteorological Administration (KMA) and the Central Pacific Hurricane Center (CPHC) on March 13.

The KMA representatives came to Pearl Harbor, Hawaii, to visit the CPHC and JTWC to learn about each center's respective Tropical Cyclone (TC) forecast operations.

Distinguished visitors included Jeung-Whan LEE (Director, Forecast Technology Team), Dr. Jae-Myun SHIM (Director, National Satellite Center), Dr. Ki-Ho CHANG (Deputy Director, National Typhoon Center), Dr. Jiyoung KIM (Senior Researcher, National Typhoon Center), Raymond Tanabe (Director CPHC), and Tom Evans (Deputy Director CPHC). Specific interest was in JTWC's TC forecast process, analysis process, product development, annual best track data processing, and personnel training pipeline.



JTWC Commanding Officer Capt. Ashley Evans welcomes visitors from the Korea Meteorological Administration (KMA) and the Central Pacific Hurricane Center (CPHC). From left to right: Ed Fukada JTWC; Raymond Tanabe, CPHC; Jae-Myun SHIM KMA; Capt. Ashley Evans, JTWC; Jiyoung KIM KMA; Jeung-Whan LEE KMA; Ki-Ho CHANG KMA; Robert Falvey, JTWC; Tom Evans, CPHC.

The visitors were welcomed by JTWC commanding officer, Capt. Ashley Evans, and then attended the morning Meteorological Conversation (METCON) followed by briefings by JTWC Director Robert Falvey and JTWC Technical Advisor Ed Fukada.

The visit resulted in a continued desire for future collaboration between the KMA and CPHC with JTWC support.

Command Spotlight: NAVO

Located at John C. Stennis Space Center in south Mississippi, the Naval Oceanographic Office (NAVO) provides oceanographic products and services to all elements of the Department of Defense. With nearly 1,000 civilian, military and contractor personnel, NAVO's mission is to optimize America's sea power by applying relevant oceanographic knowledge in support of United States national security.

Using a variety of platforms, including six oceanographic survey ships, aircraft, satellite sensors and buoys, NAVO personnel collect and analyze oceanographic, hydrographic, bathymetric, geophysical and acoustic data from the world's oceans. These data are then analyzed and utilized in products that support the warfighter.

One example of NAVO's support is the situation with U.S. Navy minesweeper *USS Guardian* (MCM-5), which ran aground on the Tubbataha Reef while transiting in the Sulu Sea near Manila, Philippines, on Jan. 17.

USNS Bowditch (T-AGS 62) with NAVO surveyors onboard was near the area and was requested by 7th Fleet to assist the grounded ship. *Guardian* crew members were transferred onto *Bowditch* and a commercial vessel chartered by Military Sealift Command.

Following the grounding, NAVO provided oceanographic products to the fleet to support salvage operations. *Bowditch* detachment members rapidly planned and executed a hydrographic survey in the vicinity of the grounded vessel and around the reef, collecting, editing and processing ship and hydrographic survey launch multi-beam data. The data were made available to the on-scene commander in support of salvage operations.

NAVO also provided an analyzed imagery-littoral product to support recovery operations using high-resolution, commercial QuickBird imagery to produce a product that showed wave breaker lines over the reef, surf zone widths in the vicinity of the *Guardian*, reef widths and reef edge.

Other support included model graphics of current speed and direction forecasts; model graphics of significant wave height and direction forecasts; and oil spill drift forecasts for both marine diesel fuel and lubrication oil.

NAVO Spotlight Employees

Mr. Doug Cronin



Doug Cronin has been a vocal advocate of the use of Autonomous Underwater Vehicles (AUVs) for NAVO and the Navy for several years and is acting branch head of the AUV Branch of the Ocean Projects Department's Systems Readiness Division.

As Littoral Battlespace Sensing-AUV program manager, Cronin has been instrumental in bringing AUVs and the operational implementation of these systems into NAVO. He has had a significant impact on all phases of the program from the original inception of operational requirements to design specifications, contracting, building and test activities, to successful completion of the first operational survey, conducted aboard the *USNS Bowditch* (T-AGS 62) late last year. Through Cronin's determination and leadership, this technology is bringing a new era to NAVO survey

capabilities by highly improving the technology and accuracy of environmental data collection.

Aside from six years spent in the Hydrography Department following his completion of the University of Southern Mississippi master of hydrographic science program (CAT A), Cronin has worked in his current department for the majority of his 27 years at the office. His undergraduate degrees include a bachelor's degree in geology from Colorado State University and a bachelor's degree in oceanography from Oregon State University.

AG1 Brittney Waddell

Aerographer's Mate First Class Brittney Waddell has made major strides at NAVO since transferring to the Naval Oceanography Survey Sea Component in November 2011. She advanced to AG1, was selected as the operations lead petty officer, deployed on three U.S. Naval Oceanographic survey ships, holds the highest operating tempo (58 percent) of all command personnel and was named Sailor of the Year.

Waddell enlisted in the Navy in March 2002 and attended Basic Recruit Training in Great Lakes, Ill., with follow-on orders to Naval Aviation Aircrewman Candidate School and Aviation Warfare Operator Specialist School. She advanced to Aviation ASW Operator Third Class and qualified as a flight acoustic operator during her tour with Patrol Squadron 47 in Kaneohe Bay, Hawaii. After the tour with Patrol Squadron 47, she decided to change her focus from naval aviation to cross-rate as an aerographer's mate to enhance her oceanographic and acoustic skills.

At NAVO, Waddell processes hydrographic and bathymetric data for the Hydrographic Department, while training to be a proficient surveyor for bathymetric, hydrographic and mine warfare surveys. She is also active in the community and serves as one of the leads on the command's Partnership in Education program.



Capt. A.J. Reiss, NAVO executive officer, presents AG1 Brittney Waddell with her 2012 Sea Sailor of the Year award. U.S. Navy photo released/by Kaley Turfitt.

Command Spotlight: FWC Norfolk

Fleet Weather Center Norfolk (FWC-N) was established in 2010 as the combined command center for naval aviation and maritime forecasting as well as the east coast sea-going component, Strike Group Oceanography Team, Norfolk.

FWC-N's mission is to keep the fleet safe from hazardous weather and enable effective operations and planning decisions by providing timely and accurate aviation, maritime and installation weather forecasts, warnings and recommendations. FWC-N provides support to fleet operations and deploys certified teams that provide tactical warfighting advantage for strike and amphibious forces through application of oceanographic sciences; and provides METOC forecasts and warnings to enable decision superiority in direct support of carrier strike group (CSG), expeditionary strike group (ESG), and amphibious ready group (ARG) commanders, and embarked staffs as well as other Navy, joint or multi-national forces as assigned.

Along with the Norfolk, Va., command center, FWC-N is comprised of three additional detachments and components. One detachment, located in Kapaun, Germany, provides resource protection (RP) support and aviation forecast products to assets in Europe and the Middle East. Another detachment is at the Pentagon and serves as the principal advisor on global operational oceanography impacts to Navy and Marine Corps operations and exercises as well as provides tailored meteorology and oceanography (METOC) support to the SECNAV, CNO, OPNAV staff, and Commandant of the Marine Corps for the planning of global naval operations. The mission of FWC Component Camp David, Md., is to provide operational weather support for the White House Military Office in cooperation with the Executive Office of the President.

FWC-N Spotlight Employees

Sgt. Steven Yates



Sgt. Yates of Charleston, S.C., is the only member of the U.S. Marine Corps stationed at Fleet Weather Center Detachment Pentagon (FWC-DP) and one of three forecast duty officers (FDO) assigned to the detachment. Outside of his normal FDO duties, he facilitates training on various meteorology and oceanography topics associated with Marine Corps missions contributing to the overall knowledge base for detachment personnel. He developed and implemented multiple standard operating procedures and various support product templates, enabling the detachment to operate more effectively and efficiently during routine operations and contingencies. "I enjoy my work," he said. "I get to be a part of the upper level echelon and see how it all works. It's a very interesting dynamic." As Detachment Voting Non-Commissioned Officer, he ensured personnel maintained situational awareness regarding the election processes through the distribution of voting materials. Yates provides forecasting experience and a unique perspective that significantly contributes to FWC-DP mission success

AG1(IDW/AW/SW) Annalyn D. Lawe

Aerographers Mate First Class (IDW/AW/SW) Annalyn D. Lawe qualified as an aviation forecaster and resource protection officer. In addition to her job qualifications, she earned her Enlisted Information Dominance Warfare Specialist qualification and held officer positions in MWR and First Class Petty Officer Association. She volunteered to be the Operations Department Minor Property custodian and a SAPR Victim's Advocate. She was awarded the Military Outstanding Volunteer Service Medal on Feb. 22 because of her devotion to the community, contributing thousands of hours throughout her three-year tour. She fostered relationships as the Command's Community Relations Coordinator with civic organizations such as the Youth Career Center of Hampton Roads, Foodbank of Southeastern Virginia, Norfolk Public Libraries, Hoffer Creek Wildlife Reserve, Virginia Beach SPCA, and the Norfolk Special Olympics. Additionally, she organized the FWC team for Children's Hospital of the King's Daughters telethon helping raise \$104,000 for cancer research and treatment.



Social Media

Follow Naval Oceanography on Facebook and @navyoceans on Twitter to keep up with all the latest news and images from the Naval Meteorology and Oceanography community.

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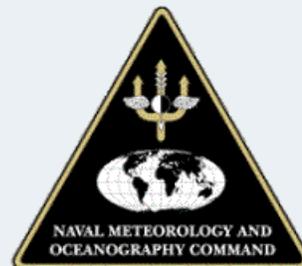
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