



USNA Oceanography Summer Internship Brief





Two Types of Internships

- “In Lieu of Leave”
 - Self funded travel and lodging
 - Not to interfere basis
 - Conducted during approved leave block
- “Eligible for Training Credit”
 - *Potential for funding exists*
 - Can substitute for a professional training event
 - Does not count for 1/c & 3/c Cruise, i.e., Fleet or YP Cruise

List of Approved Internships



“Training Credit”

“In Lieu of Leave”

#	Title of Approved Internships	USNA Dept	USNA Faculty Sponsor	ELIGIBLE for Training Credit?
1	National Geospatial Intelligence Agency (NGA) 2*	Oceanography	CDR Emil Petrunco	Yes - <i>if it can be scheduled</i>
2	Navy Marine Mammal Training at SPAWAR open	Oceanography	CDR Carl Hager	No; participate in lieu of leave
3	NOAA Hurricane Hunters Squadron open	Oceanography	CDR Carl Hager	No; participate in lieu of leave
4	Fleet Numerical Meteorological and Oceanographic Center (FNMOC) & NCAR	Oceanography	CDR Carl Hager	Yes - <i>if it can be scheduled</i>
5	Naval Postgraduate School (NPS) and NCAR Leadership Conference 1*	Oceanography	CDR Carl Hager / Dr. Smith	Yes - <i>if it can be scheduled</i>
6	National Ice Center (NIC) @ Suitland, MD open	Oceanography	CDR Carl Hager	No; participate in lieu of leave
7	Severe Weather In-Field Training (SWIFT) 10*	Oceanography	Asst. Prof. Barrett & LCDR Woods	Yes - <i>if it can be scheduled</i>
8	Naval Oceanographic Operations Command - Stennis Space Center 2*	Oceanography	CAPT William Schulz	Yes - <i>if it can be scheduled</i>
9	Naval Postgraduate School (NPS) - Department of Meteorology open	Oceanography	CDR Carl Hager	No; participate in lieu of leave
10	NOAA Educational Partnership Prgm (EPP) & Hollings Scholarship Program Pending	Oceanography	CDR Carl Hager	Yes - <i>if it can be scheduled</i>
11	Aquatic Nuisance Species Ctr for Corrosion Engineering (NRL at Key West) 2*	Oceanography	CDR Joseph Smith	Yes - <i>if it can be scheduled</i>
12	Marine Biogeochemistry Section at Naval Research Laboratory (NRL) 2*	Oceanography	CDR Joseph Smith	Yes - <i>if it can be scheduled</i>
13	Computed Tomography Lab @ Stennis Space Center (via NRL) 2*	Oceanography	CDR Joseph Smith	Yes - <i>if it can be scheduled</i>
14	Research on Oceanographic Processes in Tropical Cyclones (TROPIC) 3*	Oceanography	CDR Beth Sanabia	Yes - <i>if it can be scheduled</i>
15	Understanding Coastal Processes in the Bahama Islands - Univ of Miami filled	Oceanography	Asst. Prof. Brad Barrett	No; participate in lieu of leave

Oceanography Summer Internships (in lieu of leave)



What to do:

1. Determine if you can support yourself during one of these internships. That means:
 - Research airfare to and from your internship site.
(DO NOT purchase tickets until your summer professional training is finalized)
 - Research available billeting (BOQs are the best bet)
2. During your summer preference “sign up”, sign up for the leave block that you want to conduct your internship

Summer Internship (in lieu of leave) Timeline



1. Briefing for all interested MIDN on procedure for securing an SOC internship (JAN)
2. Contact CDR Hager with requested internship and leave block (JAN & FEB). All applications will be considered / approved, unless performance record indicates otherwise.
3. Based upon ProDev Summer Training / Summer School assignment (APR):
 - Confirm internship intentions with CDR Hager
 - Reserve BOQ room or secure off-base lodging
 - Purchase airfare
4. SOC Department will coordinate (MAY):
 - No-cost Orders
 - Security Clearance
5. Midshipmen submit AAR (After Action Report) to Director of Research via Department and Division (AUG)



Summer Internship (in lieu of leave) Opportunities

- **FNMOC (Fleet Numerical Meteorological & Oceanographic Center), Monterey, CA**
- **Navy Marine Mammal Program (SPAWAR), Pt Loma, CA**
- **NOAA Hurricane Hunters, MacDill AFB, FL**
(Recommend 3rd Block)
- **National Ice Center, Suitland, MD**





“Eligible for Training Credit” Internships

- **SWIFT – Severe Weather In-Field Training**
 - Conducted during Zero Block (approx May 14-28)
 - Funded Internship
 - Satisfies Summer Professional Training (Pending)
 - **POC: Dr. Brad Barrett x36567**
- **YP Oceanography Cruise**
 - Conducted during Third Block
 - Satisfies ProDev YP Cruise requirement
 - Sign up in MIDS
 - **POC: LCDR Shawn Gallaher x36566**
- **METOC Officer Surface Cruise**
 - Rising First Class only
 - Select Cruise Preference - “Surface”
 - 20-25 Slots (tentative)
 - Must Satisfy Ocean Option Academic Standard (NPS APC)
 - Satisfies Summer Professional Training
 - **POC: LCDR John Woods x36554**

Other Oceanography Summer Training Options



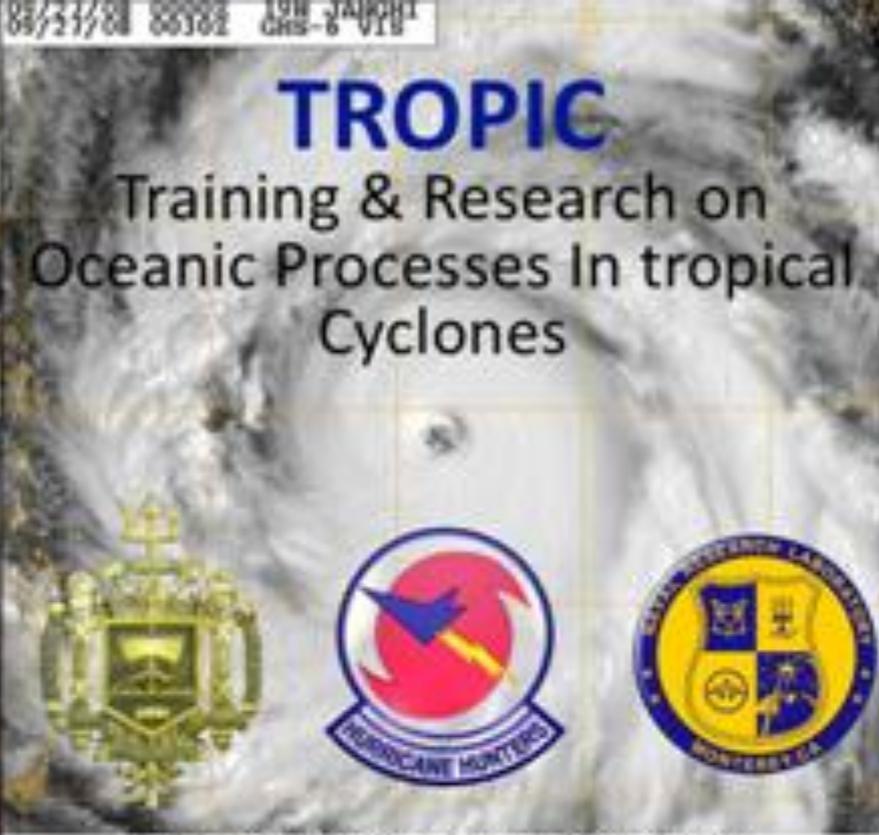
- **YP Oceanography Cruise**
 - Conducted during Third Block
 - Satisfies ProDev YP Cruise requirement for rising 3/c
 - Sign up in MIDS
 - **POC: LCDR Shawn Gallaher x36566**

- **METOC Officer Surface Cruise**
 - Rising First Class only
 - Select Cruise Preference - “Surface”
 - 20-25 Slots (tentative)
 - Must Satisfy Ocean Option Academic Standard (NPS APC)
 - Satisfies Summer Professional Training
 - **POC: LCDR John Woods x36554**

“Eligible for Training Credit” Internships

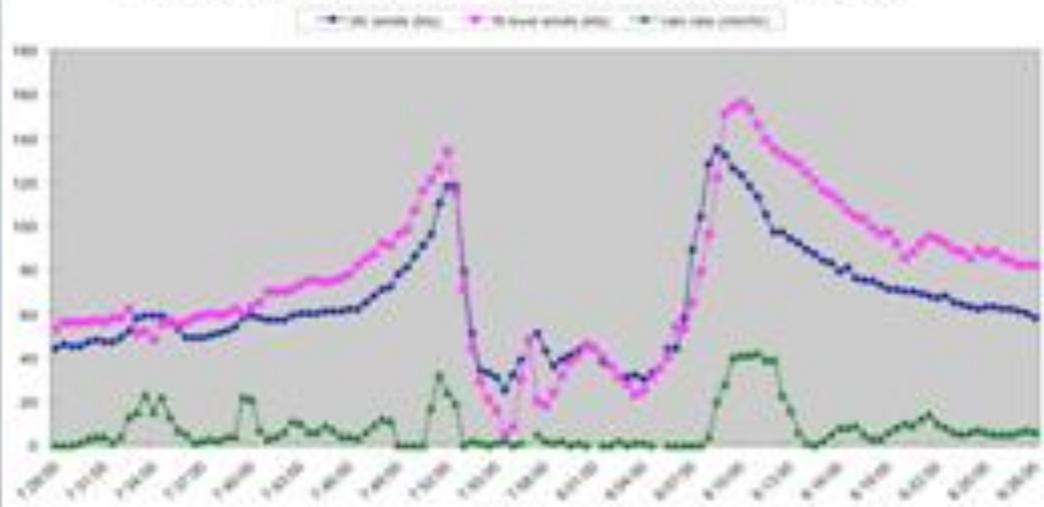


- **National Geospace Intelligence Agency** (POC CDR Petruncio)
 - To be competitive, students should take the Remote Sensing and/or GIS elective.
 - Honors students are very competitive since they receive exposure to GIS in the Honors Research Methods class (SO503).
 - Selections are made in January to facilitate security clearance upgrade.
 - Fully funded / “Expected” to satisfy professional training.
- **NCAR National Center for Atmospheric Research – Undergraduate Leadership Conference** (POC Dr. Smith)
 - One rising first class per year – by invitation of Dept Chair.
 - June 14-18 in Boulder Colorado.
 - Fully funded / Does not satisfy professional training.



Naval Research Lab <http://www.nrl.navy.mil/> (see products.html) - 110100Z 1 Sep 08/08 at 0400Z (L 41 degrees) ->

STY Jangmi C-130 Center Penetration; Pass 2: 27 Sep 08; SE-NW



SWIFT: Severe Weather In-Field Training

- What atmospheric conditions are **favorable** for severe weather?
- What **tools are available**, and how do I forecast location, type, and timing of severe weather?
- What does severe weather **look like**?
What is a wall cloud? A tornado?
- What **impacts** does severe weather have on military operations?

May 13-27 2011, ZERO BLOCK.

Sign up on interest sheet

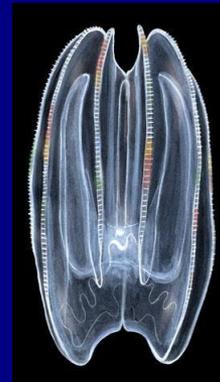




USNA Oceanography Department Summer Internship Opportunities at US Naval Research Laboratory



**Aquatic Nuisance Species (ANS) Ballast Water Management Test Facility, Center for Corrosion Science and Engineering (CCSE)
US Naval Research Laboratory, Key West, FL**



Area: Biological Oceanography/Marine Ecology

Responsibilities: Participate in ongoing research on *Aquatic Nuisance Species* (ANS), *Ballast Water Management* Technologies and *Biofouling*

Training Credit: Satisfies Summer Professional Training Requirement

Funding: (Tentative)

Dates: Block 1, 2, 3; 1-2 rising 1/C (preferred) or 2/C each for one or more Blocks*

POC: CDR J. P. Smith (x3-6568; jpsmith@usna.edu)
Prof. C. Steppe (x3-6558; natunewi@usna.edu)



USNA Oceanography Department Summer Internship Opportunities at US Naval Research Laboratory



Computed Tomography Lab US Naval Research Laboratory, Stennis Space Center, MS



NRL-SSC, Mississippi

Area: Chemical/Geological
Oceanography/Coastal Geophysics

Responsibilities: Participate in ongoing research in one or more of these areas -

- Utilizing the *acoustic/optical/thermal properties of the suspended sediment load* in estuarine waters to enhance remote sensing in denied areas
- Relating *morphology* (depth, width) and *flow* (velocity and discharge) parameters in river systems
- Conducting *nano- to meter-scale evaluations of the properties and strength of suspended sediment particles and flocculants*; investigating the potential of using *biopolymers* to limit *erosion* or increase *mud viscosity* to dampen *wave action* in coastal areas.

Training Credit: Satisfies Summer Professional Training Requirement

Funding: (Partial Pending; Most Likely Unfunded – no cost orders)

Dates: Block 2, 3; 1-2 rising 1/C (preferred) or 2/C each for one or more Blocks*

POC: CDR J. P. Smith (x3-6568; jpsmith@usna.edu)



USNA Oceanography Department Summer Internship Opportunities at US Naval Research Laboratory



Marine Biogeochemistry Section (Code 6114) US Naval Research Laboratory (NRL), Washington, DC

Area: Chemical Oceanography/Biogeochemistry



Responsibilities: Participate in ongoing research in one or more of these areas -

- Employing *biogeochemical tracers* to investigate how *physical, chemical, and biological processes* interact on different spatial and temporal scales to influence the *partitioning and fate of reactive constituents* in coastal systems
- Investigating the *biogeochemical cycling of carbon* in *methane hydrate* bearing coastal marine systems and permafrost
- Utilizing *light stable and heavy isotope ratios, and element concentrations* to track environmental exposure

Training Credit: Satisfies Summer Professional Training Requirement

Funding: (Partial Pending; Most Likely Unfunded – no cost orders)

Dates: Block 2, 3; 1-2 rising 1/C (preferred) or 2/C each for one or more Blocks*

POC: CDR J. P. Smith (x3-6568; jpsmith@usna.edu)



Questions...

- Contact:

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