



BROAD AGENCY ANNOUNCEMENT (BAA)

INTRODUCTION:

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued.

The Office of Naval Research (ONR) will not issue paper copies of this announcement. The ONR, and its partner agencies in the National Oceanographic Partnership Program (NOPP), reserve the right to select for award all some or none of the proposals in response to this announcement. ONR provides no funding for direct reimbursement of proposal development costs. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. It is the policy of ONR to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

I. GENERAL INFORMATION

1. Agency Name -

Office of Naval Research,
Ballston Centre, Tower One
800 N. Quincy Street
Arlington, VA 22217-5660

2. Research Opportunity Title -

National Oceanographic Partnership Program (NOPP)

3. Program Name -

N/A

4. Research Opportunity Number -

ONR BAA 03-014

5. Response Date -

Letters-of-Intent: 05 September 2003

Full Proposals: 01 October 2003

6. Research Opportunity Description -

On behalf of the National Oceanographic Partnership Program (NOPP), the Office of Naval Research (ONR) solicits research proposals meeting the goal and purpose of the Partnership Program outlined in Title II, subtitle E, of Public Law 104-201. Any NOPP member agency may fund research in response to this solicitation.

Up to \$3M per year may be available for this solicitation, subject to appropriation and final approval by the National Ocean Research Leadership Council (NORLC). Team efforts among academia, industry, and government participants are required (at least 2 of the 3). Proposals augmenting ongoing partnership efforts are strongly encouraged. Involvement of industry is encouraged to the extent possible.

Background:

The following five Topic Areas have historically formed the basis of the NOPP Investment Portfolio:

- A. Operational/Routine Observations (including pilots, testbeds, etc.),
- B. Research "Observatories" (long-term experiments and data series, etc.),
- C. Observational Technique Development (sensors, platforms, communications),
- D. "Commons" for Ocean Information ("hubs" and "nodes", etc.),
- E. Outreach/Education/Communications.

These investment areas are more fully described at www.nopp.org where examples of ongoing NOPP efforts are also listed. The NOPP website will contain the most recent information. Not all NOPP solicitations will seek proposals in all areas.

NOTE: As an additional, special investment topic this year, we are calling for proposals involving certain aspects of marine mammals, which is an interest area that cross-cuts and underlies progress in several of our usual Topic Areas. For convenience here, we are listing these items together, called Topic M, rather than placing them into our traditional five investment topics.

M. Marine Mammals

This announcement seeks only proposals for new projects under Topics A, C, and M.

Later announcements may call for proposals under any of the NOPP topics, including renewals of existing efforts.

Topic A. Operational/Routine Observations

This topic covers demonstrations and pilot projects that, if successful, can lead to new and improved operational capabilities in an Integrated Ocean Observation System (IOOS). In this current solicitation, NOPP seeks proposals for activities related to Sea Surface Temperature.

A(1) - Sea Surface Temperature (SST) for the Global Ocean Data Assimilation Experiment (GODAE)

While operational SST products have been produced for a quarter of a century, there have been significant recent advances in our research capability to observe and utilize satellite-derived and in-situ SST. Such advances have the potential to make corresponding advances in our operational capability, in programs such as the Global Ocean Data Assimilation Experiment (GODAE) and its operational follow-ons.

In addition to the present AVHRR/POES and future VIIRS/CMIS/National Polar-Orbiting Operational Environmental Satellite System (NPOESS) operational systems, research capabilities now in space include TMI/TRMM, AMSR/AQUA and ADEOS-II. These satellites are complemented by in-situ observations collected by surface drifting buoys, moored systems, and ships of opportunity/volunteer observing ships.

It is now an appropriate time to demonstrate the operational implications of having improved SST products. Specifically, this solicitation seeks to:

- (1) produce improved SST products through the 'fusion' of satellite-derived observations from both broad-spatial-resolution, all-weather microwave and fine-spatial-resolution, cloud-obscured, infrared sensors, and then to
- (2) assess and demonstrate the implications in operational centers of using these products in combination with oceanic and atmospheric analyses and models. If data from the Advanced Along-Track Scanning Radiometer (AATSR) can be accessed within an operationally useful timeframe, those data could be included as well.

This FY04 solicitation should complement and build on the FY02 NOPP solicitation (see Topic A(3) in http://www.onr.navy.mil/02/baa/expired/02_011.htm) to design and develop a prototype system to produce on an operational basis both in-situ skin and bulk SST products, especially for use with NPOESS; the demonstration of such a prototype

system could enable improvements in the calibration of satellite-derived observations of skin SST. That FY02 NOPP solicitation involved the collection of both skin and bulk SSTs from a limited number of volunteer observing ships, where personnel are available to check instruments while the ships span a broad range of latitudes.

This new demonstration is to be accomplished via the research and operational communities working together to help ensure that the operational community is aware of the capabilities of, and has the tools to use, potential improvements to SST data and products that are resident in the research community. If successful, the intention is to implement the results of this demonstration in the nation's operational centers.

Successful proposals must have substantive partnerships involving both research and operational entities. Each project should address the development of new, self-consistent data and products and show why they represent potential improvements to the status quo. It is anticipated that the data will be utilized in the GODAE pilot project funded by NOPP (see Federal Register, Vol. 67, No. 238, Wednesday, December 11, 2002, page 76161) to demonstrate the value of ocean models (and their improvements through better SST) to various operational products.

Approximately \$1.5M will be available over three years to support one project at a level of approximately \$500K per year for three years. Depending on progress and the availability of funding, the option exists for a one or two-year extension at level funding.

Topic B. Research "Observatories"

No proposals are being solicited in this area at this time.

Topic C. Observational Technique Development

Partnership efforts are sought here to develop and/or demonstrate capabilities to establish to observe oceanic processes and life, and to communicate that information from sea to shore in near real time. For this solicitation the emphasis is on design studies of the required technology and infrastructure for real-time networked telemetry from the U.S. coastal zone to shore, in the sense of "wiring the coastal zone" as a network into which instruments can plug.

C(1) - A Wireless Network for the U.S. Coastal Zone

Wireless data transmission protocols such as 802.11b ("Wi-Fi" in coffee shops, hotels and airports) cover short ranges but allow users easily and transparently to access the network. New protocols such as 802.16 will cover approximately 30-mile ranges.

An enabling technology for NOPP and the IOOS would be an integration of a wireless 802.16-like system plus satellite communications (like Iridium) into a "plug-and-play" network for the U.S. coastal zone (nominally the U.S. Exclusive Economic Zone (EEZ)).

The long-term objective would be to allow a ship-based user, a drifting buoy, a sub-surface sensor with a link to the surface, and shore-based sensors, all to have access to the global internet through a networked wireless system. Rather than researchers and operators having to each set up their own communication systems to shore, they would use the installed infrastructure of this "U.S. Coastal Area Network (U-SCAN)".

Proposals to consider the design and demonstration of such a network are encouraged. Support of actual at-sea tests will not be funded at this time; this is a Phase 1 design study. Should Phase 2 occur at a later time, equipment and tests would be involved.

Specifically requested for consideration in this study are:

- What existing technologies could be utilized to demonstrate such a Coastal Area Network? What new technologies are needed?
- What data rates are possible, and what are the power requirements for remote, autonomous sensors?
- Where, when and how could a demonstration be performed?
- What are the obstacles to full coverage of the U.S. EEZ?
- What is the recommended architecture, and estimated costs for a demonstration, and for full coverage?

Proposals may request up to two years of support for this design study, with a draft summary final report due by 1 May 2005.

Up to \$300,000 per year is available to support 1-2 design studies, for two years.

Topic D. "Commons" for Ocean Information

No proposals are being solicited in this area at this time.

Topic E. Outreach/Education

No proposals are being solicited in this area at this time.

Topic M. Marine Mammals

Offerers proposing to this topic are reminded of their possible responsibilities for various permits and permissions, especially related to topics M(1), M(2), and M(3).

M(1) Controlled Exposure Experiments on Marine Mammals

The very successful SWSS (Sperm Whale Seismic Study) program, coordinated by Minerals Management Service, has shown the value of 'controlled exposure experiments' in understanding the behavior of Sperm Whales in the Gulf of Mexico in the vicinity of seismic sources of known source and receive levels. Other studies have addressed other species and other sound sources, in other locations. Continued interdisciplinary studies of the effects on, and responses of marine mammals to seismic and other acoustic sources are solicited, particularly those which could be valuable in guiding regulations about use of acoustic sources in the oceans.

M(2) Ecology and Behavior of Beaked Whales

Very little is known about beaked whales except that they appear to show extreme sensitivity in some cases to mid-frequency (a few kHz) acoustic transmissions. Research on the behavior and ecology of this cosmopolitan group is of high priority, and could provide critical information to those seeking to avoid causing them inadvertent harm.

M(3) Improved Methods to Survey, Locate and Identify Marine Mammals

Most marine mammal surveys are done visually, in the daytime. New tools and methods to allow greatly improved surveys are needed, for both science and harm-mitigation purposes. As different animals have different responses to perturbing factors (like ships, sounds, and other tools of exploration and science) some specific location and speciation of the animals is desired. Ideas involving novel sensors and platforms such as LIDAR, radar, and small autonomous aircraft are encouraged in addition to acoustics and more standard methods. Modest sea-tests will be considered.

M(4) Algorithms and Databases

The development and standardization of critical modeling algorithms and databases is needed to enable informed assessment of risks from manmade underwater sound. The SEAMAP database under OBIS is one such critical database, but also needed are improved models of impulse sound propagation in both deep and shallow water environments, models of sound propagation for highly reverberant environments such as steep bays, submarine canyons and steep sided channels. In addition, centralized open-access data archives meeting NOPP (and, where appropriate, OBIS) criteria are needed for animal sounds, common manmade sounds such as sonars, ships machinery, industrial activity, and research sound sources, and natural physical environmental sound from earthquakes, landslides, lightning, rain, and wind. Other important databases needing standardization and centralized archival are animal diving and movements data from telemetry tags and other sources, and animal hearing and noise effects data including baseline audiometric data, TTS and masking data, anatomical data and behavioral response data. Workshops are needed to develop community consensus to the desired standardization.

M(5) Education and Outreach

We also encourage proposals to develop education and outreach materials that demonstrate or explain the scientific principles related to the effects of sound on the behavior of marine mammals. Such products may include curricular and/or informal educational materials; museum, aquarium or other public exhibits; web-based presentations, etc.

Up to \$2M per year are available for support of efforts in this overall topic, including M(1) through M(5). As this is a new NOPP topic, only one- and two-year proposals are being requested, but options for renewal for an additional one or two-years should also be proposed if appropriate, including a statement of what would be produced in the base 1-2 year effort to allow a decision on renewal.

Renewals:

No renewal proposals are being solicited at this time.

7. Point(s) of Contact -

Questions of a technical nature shall be directed to the cognizant Technical Point of Contact, as specified below:

Science and Technology Point of Contact:

Dr. James Eckman
NOPP Team Leader
OAS Processes and Prediction S&T Division
ONR 322
Office of Naval Research
Ballston Center Tower One, Room 407-1
800 N. Quincy St.
Arlington, VA 22217-5660
Tel: 703-696-4590
Fax: 703-696-3390, ATTN: NOPP BAA
Email: NOPP@onr.navy.mil

Questions of a business nature shall be directed to the cognizant Contract Specialist, as specified below:

Business Point of Contact:

Mr. Brian Glance
Senior Contracting Officer
Placement Two Branch
ONR 252
Office of Naval Research

Ballston Center Tower One, Room 720
800 N. Quincy St.
Arlington, VA 22217-5660
Tel: (703) 696-2596
Fax: (703) 696-2007, ATTN: NOPP BAA
Email: glanceb@onr.navy.mil

8. Instrument Type(s) -

ONR anticipates that basic research (6.1) and applied research (6.2) DoD funding will be available to make awards, as well as funds provided by other government agencies and private foundations. Awards will primarily be in the form of grants (universities) or interagency transfers (government laboratories). However, the Government reserves the right to award cooperative agreements, cost-plus-fixed-fee (CPFF) contracts or other transaction agreements to appropriate parties, should the situation warrant use of an instrument other than a grant or interagency transfer. Therefore, proposals submitted as a result of this announcement may fall under the purview of either the Federal Acquisition Regulations (FAR) or the Department of Defense Grant and Agreement Regulations (DODGARS).

9. Catalog of Federal Domestic Assistance (CFDA) Numbers -

12.300

10. Catalog of Federal Domestic Assistance (CFDA) Titles -

DOD Basic and Applied Scientific Research

11. Other Information -

N/A

II. AWARD INFORMATION

*Total Amount of Funding Available: Up to \$3M, subject to appropriation(s) and final approval by the National Ocean Research Leadership Council (NORLC).

*Anticipated Number of Awards: 4-8

*Anticipated Award Types: Awards will primarily be in the form of grants; participating industries should propose as sub-contractors to participating universities.

*Anticipated Range of Individual Award Amounts: 50K-500K annually

*Previous Year(s) Average Individual Award Amounts: N/A

*Anticipated Period of Performance for Awards: 1-3 years (plus options if applicable)

III. ELIGIBILITY INFORMATION

This solicitation is open to all responsible sources.

Historically Black Colleges and Universities and Minority Institutions, as determined by the Secretary of Education to meet requirements of 34 CFR Section 608.2 and 10 U.S.C. Paragraph 2323(a)(1)(C), are particularly encouraged to participate.

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process -

Proposals should be submitted electronically; see details below.

2. Content and Format of Letters-of-Intent and Full Proposals -

The Proposals submitted under this BAA are expected to be unclassified. The Proposal submissions will be protected from unauthorized disclosure in accordance with FAR 15.207, applicable law, and DoD/DoN regulations. Offerors are expected to appropriately mark each page of their submission that contains proprietary information.

Letter of Intent Format and Content

All potential offerors are requested to send an *electronic* message of intention to propose to NOPP@onr.navy.mil as soon as possible, but not later than September 5, 2003, to permit the peer/panel review process to be planned in advance. No specific format is necessary.

Such messages should list:

- the intended title,
- probable partners,
- Principal Investigator(s) for the project, and
- any additional information that might be helpful in arranging for reviews.

Full Proposal Format – Volume 1 - Technical and Volume 2 - Cost Proposal

- Paper Size – 8.5 x 11 inch paper
- Margins – 1” inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of Pages – Volume 1 is limited to no more than 15 pages. Volume 2 is limited to no more than 15 pages. Limitations within sections of the proposal are indicated in the individual descriptions shown below. The cover page, table of

contents, and resumes are excluded from the page limitations. Full Proposals exceeding the page limit may not be evaluated. Volumes 1 and 2 may be combined into one document.

- Copies –one electronic copy in .PDF format, submitted as described below.

Full Proposal Content

Volume 1: Technical Proposal

- **Cover Page:** This should include the words “Technical Proposal” and the following:
 - 1) BAA number;
 - 2) Title of Proposal;
 - 3) Identity of prime Offeror and complete list of subcontractors, if applicable;
 - 4) Technical contact (name, address, phone/fax, electronic mail address)
 - 5) Administrative/business contact (name, address, phone/fax, electronic mail address) and;
 - 6) Duration of effort (differentiate basic effort and options)
- **Table of Contents**
- **Statement of Work:** A Statement of Work (SOW) clearly detailing the scope and objectives of the effort and the technical approach. It is anticipated that the proposed SOW will be incorporated as an attachment to the resultant award instrument. To this end, such proposals must include a severable self-standing SOW without any proprietary restrictions, which can be attached to the contract or agreement award. Include a detailed listing of the technical tasks/subtasks organized by year.
- **Project Schedule and Milestones:** A summary of the schedule of events and milestones.
- **Assertion of Data Rights:** Include here a summary of any proprietary rights to pre-existing results, prototypes, or systems supporting and/or necessary for the use of the research, results, and/or prototype. Any data rights asserted in other parts of the proposal that would impact the rights in this section must be cross-referenced. If there are proprietary rights, the Offeror must explain how these affect its ability to deliver research data, subsystems and toolkits for integration. Additionally, Offerors must explain how the program goals are achievable in light of these proprietary limitations. If there are no claims of proprietary rights in pre-existing data, this section shall consist of a statement to that effect.

NOTE: The default data policy in NOPP is full, open, and immediate disclosure of all data taken under NOPP sponsorship. Waivers and exceptions should be requested in the proposal and may be granted by the cognizant Program Officer.

- **Management Approach:** A discussion of the overall approach to the management of this effort, including brief discussions of the total organization, use of personnel; project/function/subcontractor relationships; government research interfaces; and planning, scheduling and control practice. Identify which personnel and subcontractors (if any) will be involved. Include a description of the facilities that are required for the proposed effort with a description of any Government Furnished Equipment, Hardware, Software, Information required, by version and/or configuration.

- **Ship Use**

Funding estimates for any ship-time must be specifically included in the proposal, and the budget should include full ship costs and clearly specify the size and type of vessels proposed for use. Ships of opportunity are encouraged. Proposers should include ship time requests on either the former NSF Form 831 (Ship time Request Form) or preferably the University / National Oceanographic Laboratory System (UNOLS) on-line request form available at:

<http://www.gso.uri.edu/unols/ship/shiptime.html>.

VOLUME 2: Cost Proposal

The Cost Proposal shall consist of a cover page and two parts, Part 1 will provide a detailed cost breakdown of all costs by cost category by calendar or Gov't fiscal year and Part 2 will provide a cost breakdown by task/sub-task corresponding to the task numbers in the proposed Statement of Work. Options must be separately priced.

Cover Page: The use of the SF 1411 is optional. The words "Cost Proposal" should appear on the cover page in addition to the following information:

- BAA number
- Title of Proposal
- Identity of prime Offeror and complete list of subcontractors, if applicable
- Technical contact (name, address, phone/fax, electronic mail address)
- Administrative/business contact (name, address, phone/fax, electronic mail address) and
- Duration of effort (separately identify basic effort and any proposed options)

Part 1: Detailed breakdown of all costs by cost category by calendar or Gov't fiscal year:

- Direct Labor – Individual labor category or person, with associated labor hours and unburdened direct labor rates
- Indirect Costs – Fringe Benefits, Overhead, G&A, COM, etc. (Must show base amount and rate)
- Travel – Number of trips, destination, duration, etc.
- Subcontract – A cost proposal as detailed as the Offeror’s cost proposal will be required to be submitted by the subcontractor. The subcontractor’s cost proposal can be provided in a sealed envelope with the Offeror’s cost proposal or will be requested from the subcontractor at a later date
- Consultant – Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate
- Materials should be specifically itemized with costs or estimated costs. An explanation of any estimating factors, including their derivation and application, shall be provided. Include a brief description of the Offeror's procurement method to be used (Competition, engineering estimate, market survey, etc.)
- Other Directs Costs, particularly any proposed items of equipment or facilities. Equipment and facilities generally must be furnished by the contractor/recipient. (Justifications must be provided when Government funding for such items is sought). Include a brief description of the Offeror's procurement method to be used (Competition, engineering estimate, market survey, etc.).

Part 2 : Cost breakdown by task/sub-task using the same task numbers in the Statement of Work.

3. Significant Dates and Times -

Anticipated Schedule of Events		
Event	Date (MM/DD/YEAR)	Time (Local Eastern Time)
Letters-of-Intent Due Date	09/05/2003	4:00 p.m.
Notification of Evaluations of Letters-of-Intent	No evaluation, no notification	
Full Proposals Due Date	10/01/2003	4:00 p.m.
Notification of Selection for Award	10/31/2003 *	
Contract Awards (start date)	01/01/2004 *	

* These dates are estimates as of the date of this announcement.

4. Submission of Late Proposals –

Any proposal, modification, or revision, that is received at the designated Government office after the exact time specified for receipt of proposals is “late” and will not be considered unless it is received before selection of awards is made, the contracting officer determines that accepting the late proposal would not unduly delay the acquisition and

- (a) If it was transmitted through an electronic commerce method authorized by the announcement, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of proposals; or
- (b) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of proposals and was under the Government’s control prior to the time set for receipt of proposals; or
- (c) It was the only proposal received.

However, a late modification of an otherwise timely and successful proposal that makes its terms more favorable to the Government will be considered at any time it is received and may be accepted.

NOTE: hard-copy submissions through the USPS are considered to be under Government control at the time of submission to the USPS. Hard-copy submissions through private carriers are not under Government control until received at the Government delivery address.

Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the Government office designated for receipt of proposals by the exact time specified in the announcement, and urgent Government requirements preclude amendment of the announcement closing date, the time specified for receipt of proposals will be deemed to be extend to the same time of day specified in the announcement on the first work day on which normal Government processes resume.

The contracting officer must promptly notify any offeror if its proposal, modifications, or revision was received late and must inform the offeror whether its proposal will be considered.

5. Address for the Submission of Letters-of-Intent and Full Proposals –

Because of potential delays and/or damage in mailing or shipment of hard copy submissions, electronic submissions of Letters of Intent and Full Proposals are required. Letters of Intent may be in plain text emails. Electronic submissions of full proposals must be in PDF format.

Letters of Intent are requested by email to NOPP@onr.navy.mil. Electronic proposal submissions must be directed to the National Oceanographic Partnership Program at http://www.onr.navy.mil/sci_tech/ocean/outside/nopp_04.htm; ATTN: James Eckman.

V. EVALUATION INFORMATION

1. Evaluation Criteria –

Evaluations of the proposals will be performed using the following selection criteria:

- Relevance of the proposed research to NOPP objectives;
- Overall scientific and technical merits of the proposal;
- Level of support of critical research objectives or operational goals such as data accessibility, education and communication;
- Quality of proposed partnerships including the degree of broad participation within the oceanographic community and demonstration of significant partnering among at least two of the following parties: academia, industry, or government and extent resources are shared among partners;
- NOPP project accomplishments to date (applies to renewal projects only);
- The offeror's capabilities, related experience, and facilities or unique combinations of these that are critical to the proposal objectives;
- The partnership members' long-term commitment to the proposed objectives;
- The qualifications and experience of the proposed principal investigator and key personnel;
- Encouragement of industry as participants and partners; and
- Encouragement of under-represented groups as participants and partners.

2. Evaluation Panel -

All proposals will be subject to mail and/or panel review by peers, which may include non-governmental reviewers under non-disclosure agreements. All reviewers will adhere to confidentiality and conflict of interest standards. A synopsis of the NOPP review process can be found at <http://www.nopp.org/>.

The final distribution of awards will depend on quality of proposals, programmatic balance, NOPP priorities and availability of funds.

VI. AWARD ADMINISTRATION INFORMATION

1. Administrative Requirements –

- CCR - Successful Offerors not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to award of any grant, contract,

cooperative agreement, or other transaction agreement. Information on CCR registration is available at <http://www.onr.navy.mil/02/ccr.htm>.

- Certifications – Proposals should be accompanied by a completed certification package which can be accessed on the ONR Home Page at Contracts & Grants. For grant proposals and proposals for cooperative agreements or other transaction agreements (other than for prototypes), the certification package is entitled, "[Certifications for Grants and Agreements](#)." For contract proposals and for other transaction proposals involving prototypes (Section 845 agreements), the certification package is entitled, "[Representations and Certifications for Contracts](#)."

2. Annual Reporting -

All funded NOPP efforts must submit an Annual Report for use in the mandatory annual Spring NOPP Report to Congress. The NOPP Program Office will call for these each winter.

VII. OTHER INFORMATION

1. Government Property/Government Furnished Equipment (GFE) and Facilities

Each proposer must provide a very specific description of any equipment/hardware that it needs to acquire to perform the work. Also, this description should identify the component, nomenclature, and configuration of the equipment/hardware that it proposes to purchase for this effort. The purchase on a direct reimbursement basis of special test equipment or other equipment will be evaluated for allowability on a case-by-case basis. Maximum use of Government integration, test, and experiment facilities is encouraged in each of the Offeror's proposals.

Government research facilities and operational military units are available and should be considered as potential government furnished equipment/facilities. These facilities and resources are of high value and some are in constant demand by multiple programs. The use of these facilities and resources will be negotiated as the program unfolds. Offerors should explain which of these facilities they recommend.

2. Use of Animals and Human Subjects in Research

If animals are to be utilized in the research effort proposed, the Offeror must complete a DoD Animal Use Protocol with supporting documentation (copies of AAALAC accreditation and /or NIH assurance, IACUC approval, research literature database searches, and the two most recent USDA inspection reports) prior to award. Similarly, for any proposal that involves the experimental use of human subjects, the Offeror must obtain approval from the Offeror's committee for protection of human subjects (normally referred to as an Institutional Review Board, (IRB)). The Offeror must also provide NIH (OHRP/DHHS) documentation of a Federal Wide Assurance that covers the proposed

human subjects study. If the Offeror does not have a Federal Wide Assurance, a DoD Single Project Assurance for that work must be completed prior to award. Please see <http://www.onr.navy.mil/02/howto.htm> for further information.

3. Department of Defense High Performance Computing Program

The DoD High Performance Computing Program (HPCMP) furnishes the DoD S & T and DT & E communities with use-access to very powerful high performance computing systems. Awardees of ONR contracts, grants, and assistance instruments may be eligible to use HPCMP assets in support of their funded activities if ONR Program Officer approval is obtained and if security/screening requirements are favorably completed. Additional information and an application may be found at <http://www.hpcmo.hpc.mil/>.