

UNIVERSITY OF DAR ES SALAAM

INSTITUTE OF MARINE SCIENCES

Mizingani Rd. - P.O. Box 668 - Zanzibar - Tanzania

Tel.: +255 24 2232128 - Direct
Tel.: +255 24 2230741- General
Fax: +255 24 2233050
Email: director@ims.udsm.ac.tz
dubi@ims.udsm.ac.tz



Our Ref : A.8/

Your Ref:

31 August 2007

Dr. Jurgen Theiss, Theiss Research, La Jolla, CA 92037, USA

Dear Jurgen,

LETTER OF SUPPORT

It has been a pleasure collaborating with you for over one year now. The student research project that we both developed and that was carried out by your student Mrs. Gabriela Mayorga-Adame at our institute from April to July 2007 was a success. She and five of our junior scientists began developing a coastal model of the dynamics of the Zanzibar Channel, which is of great benefit to our institute. We are interested in seeing our collaboration with you grow.

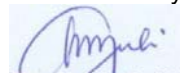
I am therefore delighted that you have taken the lead in seeking further funding for continuing and broadening our work in giving U.S.-based students an opportunity to gain international research experience at our Institute. I would welcome a group of five students each year for three months during the next three years. I understand that, subject to the success of the proposals, four students would be supported by your NSF-IRES award and one student by the NSF-IGERT award of Dr. Richard Norris of the Scripps Institution of Oceanography.

As you know, we were happy to provide whatever assistance we could so that Mrs. Mayorga-Adame could effectively carry out her project. In particular, she benefited from contacts with a number of our staff members including myself and Dr. Yohanna Shaghude. To facilitate her study, she was provided with office space, accommodation in the Institute's guesthouse, local research publications, a fast computer, and software. These same resources will also be available for the next phase of our collaboration except accommodation which may not be available. In addition, we also have laboratories, aquarium facilities, scuba dive facilities, and a library. Since our Institute is a unit of the University of Dar es Salaam, we will be happy to introduce your students to facilities available in the main campus of the University. We could also introduce your students to our partners such as the Tanzania Fisheries Research Institute. This would be of particular interest for those students that will explore the application of the coastal model for various aspects. For data collection in the Zanzibar Channel, we will provide our research boat and staff to carry out the measurements and jointly with you rent another boat if necessary.

We regularly host international visitors, which places some pressure on Institute accommodation. Therefore, we cannot guarantee space for all five of your students each year. However, if space happens to be limited we will assist you in finding suitable accommodation that you can rent at local rates.

I hope that your proposal will be successful so that we continue with our fruitful collaboration.

Yours sincerely,



Dr. A. M. Dubi
DIRECTOR



RICHARD D. NORRIS
SCRIPPS INSTITUTION OF OCEANOGRAPHY
GEOSCIENCES RESEARCH DIVISION

9500 GILMAN DRIVE
LA JOLLA, CALIFORNIA 92093-0244
(858) 822-1868
(858) 822-3310 FAX

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Dear Jurgen,

I'd like to endorse your efforts to secure undergraduate and graduate student funding through NSF's International Research Experiences for Students (IRES) Program for your proposed three-month student research projects at the Institute of Marine Sciences in Zanzibar. We are interested in funding one of the five student slots in each year of your project using funds that we are applying for in a renewal of our current NSF-supported Integrative Graduate Education and Research Traineeship (IGERT) Project on Marine Biodiversity and Conservation.

The IGERT renewal, for which I am lead-PI, will focus on the natural science and social science implications of global change and the marine environment, and will start, if we are successful, in 2008. We expect our IGERT students to do an internship or research project at the end of their second year and this requirement is a natural fit to your program in Zanzibar. If your IRES project is funded, we would be interested in sending one of our students, supported fully by IGERT, to participate in each year of your project, assuming that our student had developed a suitable research project approved by our IGERT Steering Committee and by your program. We are pleased with your proposed pre-departure preparation, general supervision, and evaluation of the students and are happy to collaborate with you.

We understand that you want to advertise the other four three-month student research projects each year to as many members of under-represented groups as possible. Our IGERT Project at Scripps Institution of Oceanography has many well-established contacts at U.S. colleges and universities with large diverse student populations. We would be happy to work with you to advertise your project through these contacts.

I am looking forward working with you to give students an international research experience in Zanzibar and therefore wish you good luck with your proposal to NSF's IRES Program.

Sincerely,

Richard D. Norris,
SIO/UCSD Professor



Project Office of the IOC's Regional Committee for the Western Indian Ocean (IOCWIO), UNESCO Nairobi Office
P.O. Box 20592, 00100 Nairobi, Kenya. Tel: +254 20 7621588, Fax: +254 20 7622750; Email: s.mazzilli@unesco.org

Date: 13 September, 2007

Ref : IOC Secretariat support for Theiss Research proposal to NSF

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037
USA

Dear Dr Theiss,

This letter refers to your proposal to extend the work done under the earlier NSF-funded program. Your earlier NSF-funded student research project at the Institute of Marine Sciences (IMS) in Zanzibar was beneficial to all the concerned parties, including IOC. Ms Gabriela Mayorga-Adame who spent time at IMS under the program successfully launched the modelling effort in IMS. Junior IMS scientists had a sense of the benefits of modeling the dynamics of the Zanzibar Channel with the coastal model ROMS. Your new proposal to NSF's International Research Experiences for Students Program represents a natural extension of her work. It has the full support of staff in our regional office and the IOC Secretariat, through the head of the Capacity-development Section, Ehrlich Desa. IOC is committed to advancing the tools of modelling, GIS, and remote sensing and collaboration with Theiss Research seems to be an effective way of fulfilling this commitment. Furthermore, we look forward to extending this mode of capacity-development to other oceanographic institutions in the East African region, and see this proposal as an important step.

UNESCO - 1, rue Miollis - 75732 Paris Cedex 15
cable address: UNESCO Paris - telex: 204461 Paris - fax: (33) (0)1 45 68 58 12 - contact phone: (33) (0) 1 45 68 39 83/84
E-mail: p.bernal@unesco.org

Chairperson

Javier A. VALLADARES
Capitán de navío
Licenciado en Oceanografía Física
Asesor Científico en Ciencias del Mar
Dirección de Relaciones Internacionales
Secretaría de Ciencias, Tecnología
e Innovación Productiva
Av. Córdoba 831 4to. Piso
(C1054AAH) Buenos Aires
ARGENTINA

Executive Secretary

Dr Patricio A. BERNAL
Intergovernmental Oceanographic Commission
UNESCO
1, rue Miollis
75732 Paris Cedex 15,
FRANCE

Vice-Chairpersons

Dr Neville SMITH
Chief of Division
Bureau of Meteorology Research Centre
G.P.O. Box 1289
Melbourne, VIC. 3001
700, Collins St., Docklands
AUSTRALIA

Dr(Ms) Savithri NARAYANAN
Dominion Hydrographer/Director-General
Ocean Sciences-Canadian Hydrographic
Service
Fisheries & Oceans
615, Booth St., Suite 311
Ottawa, Ontario, K1A 0E6
CANADA

Julian A. REYNA MORENO
Capitán de navío
Secretario Ejecutivo
Comisión Colombiana del Océano
Transversal 41, No. 27-50 Piso 4º - CAN
Bogota, DC
COLOMBIA

Prof. Cherif SAMMARI
Chef, Laboratoire du milieu marin
Institut National des Sciences et
Technologies de la Mer (INSTM)
28, rue 2 mars 1934
2025 Salammbó
TUNISIE

Nicolay N. MIKHAILOV
Head, Oceanographic Data Centre
Russian Federal Service for
Hydrometeorology & Environmental
Monitoring
All-Russia Research Institute of
Hydrometeorological information - WDC
6, Korolev St., Obninsk
Kaluga Region 249020
RUSSIAN FEDERATION

An open and fruitful dialogue exists between the various oceanographic institutions in the region with one of the common goals being capacity-development in coastal modeling. You could embed your proposal in the regional dialogue that IOC and the Western Indian Ocean Marine Science Association (WIOMSA), amongst others, facilitate. As an example, your students could participate in the workshops and symposia conducted by WIOMSA and IOC and thus obtain a regional perspective.

Such extensions require funding support, and we appreciate the limited budget of the proposed project will not be able to fund this regional outreach. We would be interested in working with you to obtain additional funds to extend the project to the region as a whole.

Working with Theiss Research has been an effective experience and we look forward to continue doing so in the future.

Yours sincerely,



Stefano Mazzilli

Programme Specialist, Capacity-development Section,
Intergovernmental Oceanographic Commission
UNESCO,
Nairobi, KENYA.

September 4, 2007

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

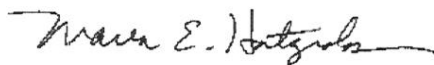
Dear Dr. Theiss,

It is good to hear that you had fruitful discussions with Dr. Nancy Knowlton, Chair of the Synthesis Panel of our Coral Reef Targeted Research and Capacity Building (CRTR) Program. Your initiative to give U.S.-based students the opportunity to obtain research experiences at the Institute of Marine Sciences (IMS) in Zanzibar will allow them to learn first hand what challenges coastal managers face in developing countries, and how science can improve coral reef management, especially because IMS is one of our program's Centers of Excellence. Besides being able to understand issues local to Zanzibar, your students will also be able to obtain a global perspective through our program, which works in 4 coral reef regions. To this end, we will be happy to introduce your students to members of our global network of science and policy experts.

Your goal of developing a model of the dynamics of the Zanzibar Channel is of particular interest to us and represents a potential area of collaboration with our Modeling and Decision Support Working Group. We see modeling and scenario building as potentially effective analytical and communication tools which can help decision-makers choose between different options, or understand the cost of inaction. Having robust biophysical data along with socio-economic information to populate our models is key. Currently, however, our Modeling and Decision Support Working Group is focused on the Mesoamerican/Western Caribbean region. The East Africa region will become a focus only later. Therefore, I would be delighted if we stayed in close contact to develop a basis for collaboration in East Africa in the near future so that both our planned efforts in Zanzibar will be mutually beneficial.

I wholeheartedly support your work at IMS in Zanzibar and look forward to collaborating with you.

Sincerely,



Marea E. Hatzios, PhD
Senior Coastal Specialist and Team Leader,
Coral Reef Targeted Research Project
Environment Department

UNIVERSITY OF CAPE TOWN



Department of Oceanography

University of Cape Town • Rondebosch • 7700 • South Africa
Telephone +27 (021) 650 5311 • Facsimile +27 (021) 650 3979

Theiss Research
7411 Eads Avenue
La Jolla, CA 92037, USA
3 September 2007

Dear Jurgen

Re: Letter of Support for NSF Proposal

I write to express very strong support for your NSF proposal which I believe follows on very naturally from our existing collaboration involving your student Gabriela Mayorga-Adame and the Institute of Marine Sciences (IMS) in Zanzibar, Tanzania. I think we could make a number of useful contributions to the proposed work and, by so doing, help to further build the collaborations between your group, the IMS and the Oceanography Dept. at the University of Cape Town.

My postdoc Dr. Juliet Hermes and I recently developed a ROMS model of the tropical western Indian Ocean, which contains the Zanzibar Channel, and we would be happy to make the model output available to you. To obtain better boundary conditions for a ROMS model of the Zanzibar Channel, your students might want to re-configure and re-run our model. We would be very happy to help you with this. I fully agree with you that a positive learning and research experience for your students is critical to the overall success of your project. In this regard, I would like to offer that I and another senior ROMS modeller here visit your students at IMS each year for one to two weeks and provide them with the additional guidance they might need to develop a ROMS model of the Zanzibar Channel.

Starting in the next academic year, we will be training two students from IMS in our M.Sc. course in Applied Marine Science (Operational Oceanography stream). Their M.Sc. theses could be on modelling the Zanzibar Channel. My visit would therefore also give me an opportunity to learn more about the Zanzibar Channel and to discuss how your student research projects and those of the two M.Sc. students from IMS could mutually benefit.

I wish you all the best with your proposal.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'CR'.

Prof Chris Reason



Robert Thombley
Integrative Oceanography Division
Scripps Institution of Oceanography
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0218

Tel.: (858) 534-2888
Fax: (858) 822-0562
Email: rthomble@ucsd.edu

September 12, 2007

Dear Jurgen

Your proposed student research projects in Tanzania involving measurements in the Zanzibar Channel are very interesting. I am therefore pleased that our group is able to provide you with a CTD and another group here at the Scripps Institution of Oceanography with an ADCP. I am aware that these instruments will be calibrated and generally serviced in the U.S. before being shipped to Tanzania. In addition to this, I understand your wish that these instruments, once in Zanzibar, are prepared and operated professionally.

I am a sea going technician with extensive experience in the maintenance, installation and deployment of oceanographic instruments. Additionally, I have trained and led multiple volunteers in the sampling protocols and operation of instruments on our research cruises. I therefore would like to offer to go to Zanzibar in the first year for the first two weeks of your students' three-month visit. I could teach and train your students and the local staff on all aspects involved in preparing and deploying the instruments, especially mounting the ADCP on the research boat. I would also document our work and experiences there and produce detailed instructions for your students of the following years and the local staff. When you will have the pre-departure meeting in La Jolla in the first year, I would also be happy to give a presentation on the instruments to your students.

I would enjoy working with you and wish you success with your proposal.

Regards,

A handwritten signature in black ink, appearing to read "Robert Thombley". The signature is written in a cursive style with a long horizontal stroke at the end.

Robert Thombley

UNIVERSITY OF CALIFORNIA, SAN DIEGO

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INTEGRATIVE OCEANOGRAPHY DIVISION
SCRIPPS INSTITUTION OF OCEANOGRAPHY

9500 GILMAN DRIVE
LA JOLLA, CALIFORNIA 92093-0227

September 13, 2007

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Dear Jurgen,

It has been my pleasure to work with you on the development of your NSF IRES proposal focused on Coastal Oceanography in East Africa. In the course of our recent conversations I have come to appreciate the depth of your experience developing and sustaining international research experiences for students. I am also impressed with – and I share – your view that international research experience can be a vital element of early-career professional development for young scientists.

You and I discussed at length aspects of the project key to its success, in particular the plans for recruiting, preparing and mentoring students of diverse backgrounds, as well as assessing the impact of the research experience on the students and subsequently sharing lessons learned with the broader research community. As with nearly every research-experience program of which I'm aware, most of the funding for IRES projects directly supports student participation. Thus PIs must be creatively resourceful in finding support for personnel to assist with **recruitment, mentoring, evaluation and dissemination**. **It is in these areas that I will contribute to the success of your proposed project as a member of your Advisory Committee.**

As a founding PI of the NSF-funded Center for Ocean Sciences Education Excellence (COSEE) California and an active member of the national COSEE Network, I have over the past five years developed thriving collaborative relationships with scientists and educators throughout the country. I am prepared to offer my assistance in connecting you with the individuals and institutions that are well positioned to help with student recruitment. During my 15 years at Scripps Institution of Oceanography, I have interacted extensively with students in the graduate program, serving informally, and more recently, formally as a mentor to many. As time and resources allow, I will help with mentoring for your IRES students. I serve as a member of the Education and Outreach Committee of the American Geophysical Union (AGU), and through this scientific professional society and others (TOS, ASLO), I can assist in identifying channels through which you and the students can disseminate your results. Finally, I am currently taking an online Applied Program Evaluation course through the University of Wisconsin, Stevens Point. What I learn may be a basis for advising you on effective approaches for assessing the outcomes of the student research experiences. As you and I discussed, we will work together to secure additional funding to support the evaluation effort.

It is an honor to be involved in such an exciting project, and I look forward to working with you to ensure its success!

Sincerely,

Handwritten signature of Sharon E. R. Franks.

Sharon E. R. Franks, Ph.D.
Co-Director, Scripps Center for Educational Outreach Connections



INSTITUTE FOR GEOPHYSICS
THE UNIVERSITY OF TEXAS AT AUSTIN

*John A. & Katherine G. Jackson School of Geoscience • J. J. Pickle Research Campus
10100 Burnet Road, Mail Code: R2200, Austin, Texas 78758-4445 • (512) 471-6156 • Fax (512) 471-8844*

September 14, 2007

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Dear Jurgen,

I wish to convey in this letter my sincere desire to participate in your IRES program with the Institute of Marine Sciences (IMS) in Zanzibar, Tanzania. I appreciate very much the opportunity you gave me to serve on the advisory committee for your initial Zanzibar Channel project, which sent Gabriela Mayorga-Adame to IMS. I'm very excited to learn about your plans to expand both the scientific scope of your project, and to increase the number of students sent to IMS each year.

I believe that our science would benefit greatly from programs such as the one you are proposing to further develop here. Oceanography is by its nature a global science, demanding cooperation from scientists throughout the world, and your program will provide extremely valuable experiences for students in American universities who wish to see what life, and scientific research, is like outside of the U.S.

To ensure that your students have a worthwhile international research experience in Zanzibar I agree with you that they need to be prepared carefully as soon as they are selected. I am an oceanographer and as a former U.S. Peace Corps volunteer spent three years in Ghana, West Africa. With this combination of qualifications I would like to offer to help you prepare and mentor your students before and during their visit to Zanzibar. I would help the students through phone conversations, email correspondences, and by participating in your pre-departure meetings. This would then allow your students and me to discuss freely and resolve any concerns and difficulties they might have with their integration into an African culture. To attend your pre-departure meeting I would cover my travel expenses myself and thus also help you in this way with your proposed project. I am very excited about the possibility of continuing to participate, in this modest way, in your fantastic project, and I thank you for the invitation to do so.

Yours sincerely,

A handwritten signature in cursive script that reads "Brian K. Arbic".

Brian K. Arbic



WOODS HOLE OCEANOGRAPHIC INSTITUTION

James A. Yoder, Ph.D., *Vice President for Academic Programs and Dean*

September 11, 2007

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Dear Dr. Theiss:

Thank you for informing me about your proposal to NSF's "International Research Experiences for Students" (IRES) Program. The student research projects on coastal oceanography at the Institute of Marine Sciences in Zanzibar that you propose would be an excellent opportunity for our students to gain international research experience.

If your project is funded I am therefore more than happy to advertise these opportunities to our undergraduate and graduate students. I oversee the WHOI component of the Joint MIT-WHOI Program in ocean science and engineering with about 150 graduate students currently enrolled. Our summer program for undergraduates involves about 30 students each year, and we also have contact information for many prior participants in our summer program.

Good luck with your proposal.

Regards,

James A. Yoder



College of Oceanic & Atmospheric Sciences

Oregon State University, 104 COAS Administration Building, Corvallis, Oregon 97331

Phone 541-737-3504 | Fax 541-737-2064 | www.coas.oregonstate.edu

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Dear Dr. Theiss,

Thank you for informing us about your proposal to the NSF "International Research Experiences for Students" (IRES) Program on giving undergraduate and graduate students at any U.S. institution the opportunity to obtain international research experience through 3-month projects at the Institute of Marine Sciences in Zanzibar, Tanzania. This opportunity would be great for our graduate students and for any undergraduate students involved in our college's programs. We would therefore be more than happy to advertise your project to our students if it is funded. Good luck with your proposal.

Yours sincerely,



Ms. Lori Hartline
Office of Student Programs
College of Oceanic & Atmospheric Sciences
104 COAS Admin Bldg
Oregon State University
Corvallis, OR 97331
hartline@coas.oregonstate.edu
541.737.5188

HAMPTON UNIVERSITY

Hampton, VA 23668

***HALL-BONNER PROGRAM FOR MINORITY
DOCTORAL SCHOLARS IN OCEAN SCIENCES***

***CENTER FOR MARINE AND COASTAL
ENVIRONMENTAL STUDIES***

September 12, 2007

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Dear Dr. Theiss,

I very much appreciate your effort in providing student research opportunities in coastal oceanography in Tanzania and strongly support your proposal to the "International Research Experiences for Students" (IRES) Program of NSF. I am delighted that these opportunities will be open to any undergraduate and graduate students in the U.S. and would like to see our students apply for them. I will therefore widely advertise your project to our students at Hampton University if it is funded. I will also promote it in the MAS (Multicultural students in Aquatic Sciences) newsletter that I send out about twice a month to about 400 recipients.

I wish you all the best with your proposal.

Sincerely,



Benjamin Cuker, Ph. D.
Professor of Marine & Environmental Science
757-727-5884, benjamin.cuker@hamptonu.edu



UNIVERSITY OF WASHINGTON

SCHOOL OF OCEANOGRAPHY
Russell E. McDuff, Director

September 12, 2007

Dr. Jurgen Theiss
Theiss Research
7411 Eads Ave.
La Jolla, CA 92037

Dear Jurgen,

Thank you for your initiative in creating opportunities for students in oceanography that seek international research experience. We always encourage our students to develop skills beyond those needed for pure research so that they become well rounded and thus better prepared to address the complex issues facing our world. Your student research projects at the Institute of Marine Sciences in Zanzibar seem ideal to develop these skills. Should your proposal to NSF's International Research Experiences for Students Program be funded, I would be happy to encourage our undergraduate and graduate students to consider participating in your project.

Sincerely,

Russell E. McDuff
Professor and Director



13 September 2007

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Dear Jurgen:

I have read with great interest your proposal to the National Science Foundation titled "International Research Experiences for Students: Coastal Oceanography in East Africa". I really like your approach to involving both undergraduate and graduate students in work that utilizes the Zanzibar Channel as a natural laboratory for a focused modeling and measurement study. Such a project would create exciting opportunities for students to gain highly practical research experience in coastal oceanography as well as fostering international ties with researchers there at the Institute of Marine Sciences in Tanzania.

Our undergraduate program in marine and atmospheric sciences at the University of Miami enrolls approximately 300 students with majors in marine science, meteorology, and marine affairs and policy. Our graduate program at the Rosenstiel School is one of the largest in the country, with a student population of just under 200 students, of which about 70% are at the Ph.D. level. Should your proposal be funded by the IRES program at NSF, I would be more than happy to personally advertise the opportunity to participate in your project amongst both our undergraduate and graduate student populations. Our undergraduates, for example, are strongly encouraged to become involved with research and to write and defend senior theses, and many do apply for and participate in programs similar to yours around the country and overseas. I have no doubt that you would see interest from students here in your project.

Please keep me informed me as to the status of your proposal. I wish you the best of luck for a successful submission.

Most sincerely,

A handwritten signature in black ink, appearing to read "Larry E. Peterson". The signature is fluid and cursive, with a large loop at the end.

Larry E. Peterson
Professor and
Associate Dean for Academic Affairs

Rosenstiel School of Marine and Atmospheric Science
Associate Dean
4600 Rickenbacker Causeway
Miami, Florida 33149-1031
Phone: (305) 421-4155 • Fax: (305) 421-4771
E-mail: gso@rsmas.miami.edu
<http://www.rsmas.miami.edu>

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INTEGRATIVE OCEANOGRAPHY DIVISION, 0209
SCRIPPS INSTITUTION OF OCEANOGRAPHY

LA JOLLA, CALIFORNIA
92093-0209

September 8, 2007

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Dear Jurgen,

I enjoyed advising your collaboration with the Institute of Marine Sciences in Zanzibar during the last year. The research project of your student Gabriela Mayorga-Adame has clearly shown that there are great opportunities for further student research projects and therefore I fully support your plan to send more students to Zanzibar in the future. I will also encourage my own students to participate in your project.

I particularly welcome your initiative of adding to numerical projects, like the one carried out by Mrs. Mayorga-Adame, also observational projects to give students a well-rounded research experience. I therefore would like to lend you a Workhorse Sentinel 300kHz ADCP of Teledyne RD Instruments free of charge each year for the next three years.

I request that the ADCP be insured against damage and loss for an amount of 31,900 *during the time you have it on loan.*

I wish you good luck with your proposal and please feel free to stop by my office any time to discuss coastal oceanography in Zanzibar.

Yours sincerely,

Sincerely,

A handwritten signature in cursive script that reads "Clinton Winant".

Clinton Winant,
Professor of Oceanography



Dr. Ralf Goericke
Integrative Oceanography Division
Scripps Institution of Oceanography
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0218

Tel.: (858) 534-7979
Email: rgoericke@ucsd.edu

Dr. Jurgen Theiss
Theiss Research
7411 Eads Avenue
La Jolla, CA 92037

Re: CTD

September 10, 2007

Dear Jurgen,

The Integrative Oceanography Division at the Scripps Institution of Oceanography is dedicated to student training and has therefore a CTD that is exclusively used for this purpose. We are pleased to hear that you are seeking funding from NSF to train students in oceanographic data collection in the Zanzibar Channel and are therefore more than happy to lend you our CTD, free of charge, for three months each year from 2008 to 2010.

Our CTD is a SeaBird SBE19 profiling CTD enclosed in a stainless steel cage. It has no pump. You might want to purchase one to achieve higher consistency and accuracy. It should also be calibrated by SeaBird Electronics.

We will lend you the CTD under the condition that it is insured against damage or loss for an amount of \$12,850 during the entire time you are in possession of it.

We wish you success with your proposal to NSF.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Mr. Goericke".

Ralf Goericke

Atlanta, September 7, 2007

Dear Jurgen,

Your efforts to provide students with research opportunities in Zanzibar is commendable. I enjoyed discussing with you and your student Gabriela Mayorga-Adame her research project in Zanzibar and I would like to continue doing the same with your future students. I could even help you recruit students from the institute here, which would also make it easier for me to advise them.

Mrs. Mayorga-Adame has successfully set up the Regional Ocean Modeling System (ROMS) for the Zanzibar Channel and your future students will be able to build on it. You might thus reach a point when more computer power than that available at the Institute of Marine Sciences (IMS) in Zanzibar would be welcome. This is especially so if you want to re-run a re-configured version of Chris Reason's ROMS model of the tropical Western Indian Ocean in order to obtain better boundary conditions for your Zanzibar Channel model. I therefore would like to offer processing time on my computer cluster.

I wish you success with your proposal.

Yours,



Dr. Emanuele Di Lorenzo
Assitant Professor
School of Earth and Atmospheric Sciences
Georgia Institute of Technology