#### Journal of Geophysical Research

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#### Editor

Ralph Cicerone National Center for Atmospheric Research P.O. Box 3000 Boulder, Colorado 80307 (303) 494-5151 **Editor** 

A. D. Kirwan, Jr.
Department of Marine Science
University of South Florida
140 Seventh Avenue South
St. Petersburg, Florida 33701
(813) 893-9130

June 15, 1982

Dr. Walter Munk
University of California
Scripps Institution of Oceanography
Institute of Geophysics and Planetary
Physics, A-025
La Jolla, CA 92093

Dear Walter:

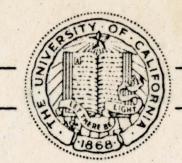
Thank you for your recommendation on K-622, the paper by Mercer and Booker on acoustic propagation through mesoscale features. Your opinion on this paper is most important in my decision on its disposition.

I thought your talk on behalf of Hank Stommel at the recent AGU meeting was superb. You certainly captured the essence of his contribution and of his character. I looked for you after the ceremony to complement you on this, but apparently our paths did not cross.

Respectfully,

A. D. Kirwan

ADK/md



SANTA BARBARA · SANTA CRUZ

PLANETARY PHYSICS, A-025
SCRIPPS INSTITUTION OF OCEANOGRAPHY

LA JOLLA, CALIFORNIA 92093

July 21, 1982

Dr. Bert Bolin KUNGL. VETENSKAPSAKADEMIEN The Royal Swedish Academy of Sciences Box 50005, S-104 Stockholm, Sweden

Dear Bert:

I have received your letter concerning the Holger Crafoord award to be given in 1983 in the field of geosciences.

I am, of course, very pleased that the Academy has decided that the theme should be global motions of the atmosphere and the sea. My recommendation would be that such an Award be given to Henry Stommel.

It turns out that just recently, I gave a Citation for Henry in connection with the Bowie Medal. Perhaps this says better than any other way what my motivation is for this choice.

Sincerely yours,

WOIT

Walter Munk

Enclosure

WM:ds

The Royal Swedish Academy of Sciences has received a donation from the Swedish industrialist Holger Crafoord. The annual yield is to be used to promote research in mathematics, astronomy, the biological sciences, the geosciences and arthritis. According to the wish of the donor one part of the money (about US\$ 70 000) should be given as an international prize.

The prize should be awarded according to the following rules. An important area within one of the fields of sciences enumerated above is selected with reference to its international development. Any scientist in the world having made an important contribution to the advancement in this field is eligible for the prize. It may also be shared by at most three individuals. The remainder of the yield should be used to support research in Sweden in the selected field.

The rules also prescirbe that distinguished scientists throughout the world be asked to nominate candidates for the prize.

In 1983 the prize is to be awarded one (or a few) scientists in the field of geosciences and the Academy has decided that the scientific area for the prize should be Global motions of the atmosphere and the sea.

You are herewith respectfully invited to propose candidates for the 1983 prize and it would be appreciated if you would also forward a motivation for your choice. Your response will be regarded as confidential and should reach the Academy before the end of September 1982.

Sincerely yours,

Tord Ganelius

Secretary General

Bert Bolin

Committee Chairman



SANTA BARBARA · SANTA CRUZ

INSTITUTE OF GEOPHYSICS AND
PLANETARY PHYSICS, A-025
SCRIPPS INSTITUTION OF OCEANOGRAPHY

LA JOLLA, CALIFORNIA 92093

January 11, 1983

Dr. H. M. Stommel Woods Hole Oceanographic Institution Woods Hole, Massachusetts 02543

Dear Hank:

Perhaps you have heard of the Green Scholar program at IGPP. Funds from a private foundation, established through the generosity of Cecil and Ida Green, are used to pay the costs of bringing visiting scholars to IGPP for visits of medium duration (≥2 months, ≤2 years). Over the years people at all stages of their careers and from many different geophysical fields have held these scholarships. Our selection committee has enthusiastically recommended that we sound our your availability for such a visit. Any time after 1 July 1984 would suit our funding schedule. All we ask is that the visit be within the time limits noted above, and that you make an honest effort to interact with staff and students here, whether by seminars, lectures, or more informal discussions.

We are very flexible in funding arrangements. In some cases we have paid salaries, in others travel and living expenses. If you can tell us what your needs would be, some equitable scheme can be worked out. "Travel and living expenses," in this connection, naturally means the cost of Chickie's travel too, and of a suitable rental for the two of you.

Peter Rhines held one of these scholarships not long ago; you might want to quiz him about his experiences here. Either of us will be glad to answer any questions you may have, but we reserve the right to use any such conversations as vehicles for twisting your arm to come here.

Best regards,

Walter H. Munk

7201t-

Sob Knox

WHM/BK/mj

cc: R. L. Parker B. Zetler your generous letter and invetation of January 11 was very welcome.

I think that I had better not accept, through, because in some mysterior way things are going so well have scientificially that I don't want to perturb the averagement. There days I feel like I am having a second blooming and it is very ex- The citing to me. The latest obvelopment is a new July steem theory. L. Armi and B. Young ear tell you about it.

The well-garings of creatisety are so fickle and impossorable that I weally don't dave more away from the water as I have found it here.

heith my fordert wisher and gratitude for your proffeed kniew.

Blung

Jan 18, 1983.



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SCRIPPS INSTITUTION OF OCEANOGRAPHY LIBRARY C-075C

LA JOLLA, CALIFORNIA 92093

7 November 1983

Dr. Walter Munk A-025

Dear Dr. Munk:

I don't know whether the Tyler Prize file is still active, but I've just come across a letter from Henry Stommel to Roger Revelle which contains a marvelous quote:

"I've been thinking about you lately and it occurred to me that people rarely express their admiration of other's goals and ideals until after they are dead.
...I hope you will accept this note as a token of my sincere good wishes and my recognition of the fact that you have set your sights high, that you are honestly concerned about world peace, betterment of mankind, an understanding of man's place in the universe. They are youthful ideals, and many people lose them as they come to positions of influence and power. Somehow you have retained them. It makes you good and true — and a great many of [sic] respect you for it."

The letter is dated January 2, 1960, and is in Box 62 of the Revelle Papers.

Sincerely,

Deborah Day, Archivist

#### UNIVERSITY OF CALIFORNIA, SAN DIEGO

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LA JOLLA, CALIFORNIA 92093

TO: Walter Munk, A-025

RE: Matkin CHALLENGER letters

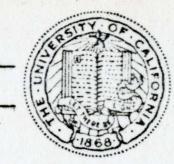
FROM: Deborah Day, Archives

DATE: March 29, 1984

I'm enclosing copies of the typescripts of the Joseph Matkin letters, written while he was a member of the crew of the H.M.S. CHALLENGER during the expedition of 1872-1876. These are second generation copies of the typescripts made by Matkin's granddaughter. She has the original typescripts.

Would you wait until next week before mentioning the letters to Miss Sears, Henry Stommel and others? We won't actually own the original letters until the gift agreement is signed tomorrow. The letters then have to go to a conservator in LA for treatment, so they will not be available for exhibit or use for at least eight weeks. Jackie Parker is coordinating publicity. Dr. Nierenberg wants to plan a reception celebrating the acquisition sometime before the end of the semester. Miss Sears and Dr. Stommel should certainly be invited.

The Matkin letters are the only letters by a CHALLENGER crew member known to exist. The British Museum acquired 8 additional Matkin letters at auction last fall —the provenance of those letters is unknown. I'm pursuing other Matkin descendents in hopes of finding more.



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INSTITUTE OF GEOPHYSICS AND
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SCRIPPS INSTITUTION OF OCEANOGRAPHY

LA JOLLA, CALIFORNIA 92093

April 13, 1984

Professor Henry M. Stommel Woods Hole Oceanographic Institution Woods Hole, Massachusetts 02543

Dear Henry:

I certainly enjoyed reading your paper about Hetons. The connection to the much earlier work on baroclinic instability is very interesting. I admire you for your productivity in many different topics during the last few years.

Our library received an interesting present a few months ago. These are letters by Joseph Matkin, a sailor on the H.M.S. CHALLENGER, written during the expedition of 1872-1876. The letters were copied by Matkin's grand-daughter and have just found their way to us. I am attaching a copy of the first of these letters.

Sincerely yours,

10.21.

Walter H. Munk

WHM/mj Enclosure Joint Oceanographic Institutions Incorporated

2100 Pennsylvania Ave., N.W., Room 316, Washington, D.C. 20037 Phone-(202)331-9438 Cable Address, JOIINC

DIRECTOR S.I.O. Menant.

Piterson

April 25, 1984

MAY 3 1304

Ms. Sandra D. Toye Director, Ocean Drilling Program Division of Ocean Sciences National Science Foundation Washington, DC 20550

Dear Sandra:

Your letter of January 9, 1984 requested that JOI prepare a management plan for the curation of all materials retrieved by scientific ocean drilling. Enclosure I is the Texas A&M University's program plan for curatorial responsibility for core repositories. This plan is endorsed by JOI and agrees with the JOIDES recommendations.

The curatorial responsibilities for all cores collected during the forthcoming cruises of the Ocean Drilling Program (ODP) as well as those collected during the previous cruises of the Deep Sea Drilling Project (DSDP) will reside with the Science Operator at Texas A&M University (TAMU). The three repositories specified in the plan will be administered by TAMU and will be staffed with ODP employees. Existing DSDP repository staff will be offered an opportunity to become ODP employees in their present positions. Space for repositories located at Lamont-Doherty Geological Observatory (L-DGO) and at Scripps Institution of Oceanography (SIO) will be leased in much the same way as during the DSDP.

The budget estimate of just under \$600K for FY 85 as depicted in the enclosure will be reflected in the FY 85 Program Plan.

Sincerely yours,

John H. Clotworthy

Vice President and General Manager

cc: Dr. Philip D. Rabinowitz, TAMU.

Dr. William Merrell, TAMU

Dr. C. Barry Raleigh, Director, L-DGO Dr. William Nierenberg, Director, SIO

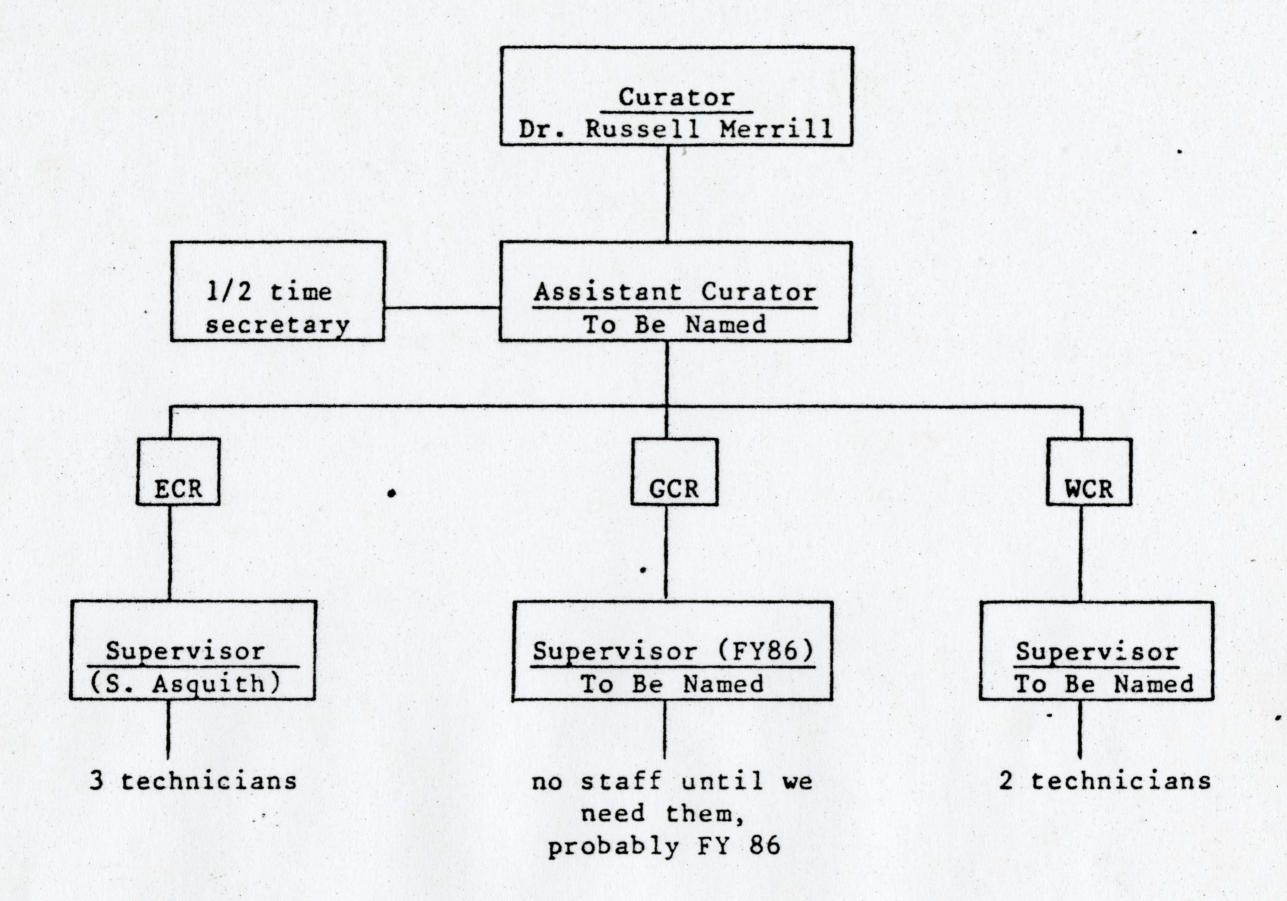
Dr. M.N.A. Peterson, Project Manager, DSDP, SIO

Dr. José Honnorez, JOIDES

programs now underway are completed. ODP will draw upon ECR and WCR personnel to staff the vessel, as necessary, and also plans to continue to provide the full range of repository services now being offered by DSDP. The hiring of the staff for the new Gulf Coast Repository (GCR) at TAMU will commence early in FY 1986; thereafter, relative numbers of staff at ECR, GCR, and WCR will be adjusted as dictated by the community's demands for services at the three locations.

All three repositories will be administered by TAMU and will be staffed with ODP employees. Existing DSDP repository staff will be offered an opportunity to become ODP employees in their present positions, salaries and ranks. Space for repositories located at Lamont-Doherty Geological Observatory (L-DGO) and at Scripps Institute of Oceanography (SIO) will be leased in much the same way DSDP and L-DGO have handled it in the past.

Phily D. Rebrats
04 April 1984



### REPOSITORIES AND CURATORIAL SECTION

FISCAL YEAR 1985 BUDGET SUMMARY

# Curatorial Section \$ 51,176 East Coast Repositories 242,980 West Coast Repositories 245,880 Gulf Coast Repositories 15,000 TOTAL \$ 555,036

#### REPOSITORIES AND CURATORIAL SECTION

#### FISCAL YEAR 1985 BUDGET DETAIL

| CURATORIAL SECTION  |   |
|---|---|
| Direct Labor Supplies Travel Equipment Other Direct Costs | \$ 37,851<br>1,030<br>800<br>-0-<br>11,495        |
| TOTAL   | \$ 51,176   |
| EAST COAST REPOSITORIES                                   |   |
| Direct Labor Supplies Travel Equipment Other Direct Costs | \$ 114,881<br>12,000<br>8,400<br>-0-<br>107,699   |
| TOTAL   | \$ 242,980  |
| WEST COAST REPOSITORIES                                   |   |
| Direct Labor Supplies Travel Equipment Other Direct Costs | \$ 121,436<br>6,500<br>8,400<br>-0-<br>\$ 109,544 |
| TOTAL   | \$ 245,880  |
| GULF COAST REPOSITORIES                                   |   |
| Direct Labor Supplies (Curatorial) Travel Equipment       | -0-<br>\$ 2,000                                   |
| Other Direct Costs  | 13,000  |
| TOTAL   | <u>\$ 15,000</u>                                  |



SANTA BARBARA · SANTA CRUZ

INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS, A-025 SCRIPPS INSTITUTION OF OCEANOGRAPHY LA JOLLA, CALIFORNIA 92093 May 9, 1984

Prof. Henry M. Stommel Woods Hole Oceanographic Institution Woods Hole, MA 02453

Dear Henry:

The Matkin letters are fun, as you say. They are now in the hands of a conservator. We are to have an official exhibit sometime this fall, when the gift will be officially acknowledged.

There are no plans underway for their publication, just talk. Your suggestions would be welcome.

I am enclosing a xerox of one of the handwritten letters; notice the superposition of lines at right angles; this was done to save paper, have you ever seen this? These are remarkably readable, and must be some principal of Orthogonality. \*

Do you remember a letter you wrote to Roger Revelle 25 years ago in which you expressed appreciation of his public spirit? Deborah Day, who came here a year ago as an official Scripps Archivist, uncovered this letter and I sent it on to Lou Branscomb, who is giving the award to Roger on Wednesday at a fancy dinner at the National Academy of Sciences. Branscomb is the present chairman of the National Science Board. Lou Branscomb chose your letter as a key quotation in his talk. I hope you don't mind.

Yours sincerely,

Walter H. Munk

WHM: jrd

Enc.

cc: D. Day

4 J Love learned that British outhirists
call this "heavily crossed over".

april 20, 1984

Dear Walter,

I hanh you for your letter and the copy of the Joseph Matthem letter from the Challenger. Is Sevejepe going to have the Matteni letter publisher? I do lægee so. They can't a wondefalleght on the wayage. I did not lenow, for instance, that Capit Naves had lin 9-year old son along. Or that he & Professor Thomas divised at Liston with the King of Portugal. all splendid material under With my best to you and Judg

Hanny.

Wistamal

jula

#### NATIONAL SCIENCE BOARD

WASHINGTON, D.C. 20550

April 25, 1984

Dr. Walter H. Munk Scripps Institution of Oceanography University of California, San Diego La Jolla, CA 92093

Dear Dr. Munk:

Thank you very much for the material on Dr. Revelle. We forwarded it to Dr. Branscomb together with a copy of Mr. Daddario's talk.

Enclosed is a copy of Dr. Branscomb's remarks he plans to make at the time of the presentation of the Vannevar Bush Award to Dr. Revelle. He would appreciate having your comments, if any. Please call our office (202/357-9582) and we will convey your thoughts to him.

Many thanks.

Sincerely,

Alexa Wolman

Enclosure

Presentation of the Vannevar Bush Award to

Roger R. Revelle

National Science Board

May 9, 1984

The golden sun and cold blue sea of California are among Nature's most glorious creations. I like to imagine that Mother Nature felt that California was not quite complete until her handiwork was entrusted to a very special admirer, protector, even a stern but caring critic. Roger and Ellen Revelle seem a necessary part of Nature's scheme.

Lewis Thomas, that lyric poet of science, reminds us that "Man is embedded in nature. The biologic science of recent years has been making this a more urgent fact of life. The new, hard problem will be to cope with the dawning, intensifying realization of just how interlocked we are. The old, clung-to notions most of us have held about our special lordship are being deeply undermined."

Many ecologists have helped put us -- homo sapiens -- in our place. We have learned that we are inescapably a part of the planet's biology, our future linked to our willingness to accept the responsibilities and limitations of interdependence -- with both the physical world and other species. Many humanists and philosophers have celebrated the attributes of our species that distinguish us from our fellow creatures -- curiosity about

our origins and destiny, comprehension of beauty, compassion for our fellow creatures.

Roger Revelle's career demonstrates that science and reason are natural partners of caring. Roger is one of the few people on this earth whose left and right brains are fully wired together.

It seems to me particularly appropriate that this man, loved and admired from Nepal to Nigeria, Karachi to Dakka to Sri Lanka should have started life as an oceanographer. For it was out of the sea that higher life forms emerged, and it is back to the sea we must go to understand the origins of our planet and of the life upon it. This vantagepoint helps us understand how in 1964 an oceanographer came to be appointed Richard Saltonstall Professor of Population Policy at Harvard and shaped the approach he would take as director of Harvard's Center for Population Studies.

The Harvard Center sought to understand the impact of population change on human lives, explored the biological, cultural and economic forces that influence human fertility.

In the years since his return to La Jolla, Roger has devoted himself to the wise and imaginative use of science for the bettermen of people in the poorest nations. He equally rejects cynicism and callousness, whether it comes from the third world or the first. I saw him give his best effort at the 1979 UN Conference of Science and Technology for Development in Vienna.

He tried mightily in the hope that there might be substantive discussions of how science might be nurtured and applied to the critical problems of development. It was not to be, but if Roger was discouraged it did not deter him from continuing the effort. Having been active in the U.S. Commission for UNESCO since 1958, Roger has always been willing to invest his effort in worthwhile goals; his perseverence wins out over petulance.

The Vannevar Bush Award is given for extraordinary contributions to the Nation and mankind through the advancement and beneficial applications of science. The last 20 years of Roger's career have earned him this award many times over. But we must remember that his first scientific paper was written 52 years ago.

That scientific career spanned an extraordinary range of problems. Drilling sediments in Bikini Atoll he proved Darwin's conjecture that atolls are sunken volcanic islands on which skeletons of reef-building organisms have accumulated over millions of years. His work with Sir Edward Bullard and Art Maxwell on heat flow from the earth's interior under the oceans gave powerful evidence of the crustal dynamics that emerged in the general theory of plate techtonics.

But Roger has been renowned as a builder of institutions and of organizing concepts for the accomplishment of extraordinary scientific goals. He led the Scripps Institute for Oceanography to its present preeminence. A pioneer organizer of international

cooperative scientific programs, he helped to plan or lead major efforts to study the North Pacific, the South China Sea, the Indian Ocean, the oceanographic programs of the IGY, the International Biological Program.

He initiated a continuing global study of atmospheric CO2 effect on climate. He was a founder of the Deep Sea Drilling Project. He reversed a gathering agricultural calamity in Pakistan using tube wells to reverse accumulating soil salinity due to improper irrigation practices.

He also found the time to serve his own country directly, first as a young officer in the Naval Reserve in World War II, later as Science Advisor to the Secretary of Interior, Morris Udall. He has always given generously of his time as advisor.

About 25 years ago, Henry Stommel of Woods Hole wrote a letter to Roger with a statement that could serve beautifully as a citation for this Vannevar Bush Award:

"...you have set your sights high,...you are honestly concerned about world peace, betterment of mankind, an understanding of man's place in the universe.

They are youthful ideals, and many people lose them as they come to positions of influence and power. Somehow you have retained them. It makes you good and true -- and a great many of [us] respect you for it."

Against this record of extraordinary accomplishment, I cannot bring myself to list his medals and honors, for while richly deserved, they stand in silent testimony to his achievements. We are fortunate to have the real Roger Revelle here with us, one of the few people about whom it can truly be said that he stands larger than life.

Lewis M. Branscomb



SANTA BARBARA · SANTA CRUZ

SCRIPPS INSTITUTION OF OCEANOGRAPHY LIBRARY C-075C

LA JOLLA, CALIFORNIA 92093

May 7th

#### Dear Walter:

I'm enclosing a copy of a photocopy of one of the British Museum Matkin Challenger letters which shows the "crosspatch." That's an informal American archivists' term for the writing technique. The British archivists speak of this type of writing as "heavily crossed over."

Dr. Stommel might be interested in knowing that in addition to the 23 Matkin letters we have, and the eight Matkin letters at the British Museum (typescripts enclosed), there are additional Matkin letters in the hands of Mrs. Stone's cousins in Canada. Eilene Brunton of the British Museum and I agree that the Canadian cousins should be convinced to donate their letters to an archives if at all possible. We are working on that jointly. The letters are in such delicate condition that their deterioration is of great concern if they do not receive conservation treatment promptly.

Yours,

Deborah Day, Archivist

Stommel

Walter FY11

## Henry Stommel Woods Hole Oceanographic Institution woods hole, massachusetts 02543

Dear Du. Deacon

may 21, 1984

Thank you for your letter of the 16th mint. I talked with the Scripper Archivist, Deborah Day and she told me that she has 23 of the Mattern letters from a Low Angeles descendant, the British Humann has 9, and that there may still be some more in other family hunds in Victoria, B.C.

Jol Reid let me see typesampte of the 23 and I promised not to copy them and veterned them to him imagical.

Walter Membe (enclosed) sent me copies of the B.M. letter which I think give the marvellow flower of the letter.

They make one feel that he was on the comine.

Walter, you and I all agree that the authorism so for an it can be completed by further accession or
purhous — should be published. A scholar who
can annotate the material and find answer to all
the question that arise (or for example in what it
appears to be a stortling lecture, by U. Thomas
the aims of the arisine) may perhaps be personaled to
take on the book. It ought to be a delightful thing
to do.

Lets try to get a more direct correspondence stated between a propertie editor/scholar/publishe and Debarah Day.

yours smeet

#### Woods Hole Oceanographic Institution

Woods Hole, MA 02543 Phone: (617) 548-1400 Telex: 951679

JA 3000 H 5000M

1020

February 27, 1986

My Dear Sir:

By this letter I wish to second the nomination of Professor A. S. Monin for the Prix Balzan 1986, made to your committee on February 12th by Dr. V. M. Kamenkovich.

Over the more than twenty years I have known Professor Monin I have respected him for the breadth and depth of his enquiring mind. Of scientists whom I have known he seems to have mastered and contributed to the largest range of topics, and always with new and critical insights. Monin continues the great tradition of his distinguished teacher Kolmogorov.

In addition to being a top scientist, Monin administers the largest oceanographic institution in the USSR (and perhaps the world). He has been a leader in international cooperative efforts such as the 1975-76 joint USSR-USA Polymode study of eddies in the Atlantic Ocean. I urge you to consider him as a first-rate candidate for the Balzan Prize.

Yours truly,

Henry M. Stommel

Wenny Stommel

Member of

The Royal Society, London
Academy of Sciences, Washington
Academie des Sciences, Paris

Akademie Nauk, Moscow

HMS: mal

Fondazione Internazionale Premio E. Balzan - PREMIO P. tta U. Giordano, 4 I-20121 Milano, Italia

ACTION?

COMMAND? READ 2

POSTED: FRI MAY 16, 1986 8:08 AM EDT

MSG: E6I6-2495-8459

FROM: H.STOMMEL

TO:

IFM.KIEL, C.COLLINS, D.MOORE, P.NIILER, W.MUNK,

J.CREASE, G.CRESSWELL, J.MERLE, A.ROBINSON, C.WUNSCH,

E.FIRING, J.LUYTEN,

D. HALPERN, R. KNOX

CC: C.REID/OCEAN STOMMEL

MY USE OF TELEMAIL HAS DMINSIHED TO THE POINT THAT IT DOES NOT SEEM ECONOMICAL FOR ME TO STAY ON THE NETWORK. SO I'M TERMINATING MY CONNECTION AND BOX NEXT MONTH. THIS IS NOT MEANT TO REFLECT ON THE SERVICE, WHICH IN GENERAL HAS BEEN EXCELLENT, AND I:DO THINK THAT TELEMAIL IS A GOOD AND USEFUL SYSTEM... PARTICULARLY FOR PEOPLE MORE INVOLVED IN AFFAIRS THAN I AM.

IN THE FUTURE YOU CAN REACH ME BY UNCLE SAM'S OWN SYSTEM OR IF URGENT BY TELEMAIL THROUGH OUR DEPARTMENT ADDRESS: C.REID/OCEAN.

REGARDS. HENRY STOMMEL

ACTION? ANSWER TEXT:

BACK TO UNCLE SAM.

WE HAD SOME NICE RESULTS FROM A RECIPROCAL ACOUTIC TOMOGRAPHY EXPERIMENT IN 1983. WE CAN USE DIFFERENTIAL TRAVEL TIME TO MEASURE CURRENTS TO ABOUT 1 CM/S. THE INVERSIONS WORK RATHER WELL TO SEPERATE THE BARDTROPIC FROM THE BARDCLINIC MODES.

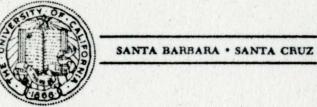
I WILL BE IN WOODS HOLE IN AUGUST FOR A FEW DAYS, AND HOPE TO FIND YOU! WE MISS NOT SEING YOU MORE OFTEN. WALTER

SEND? Y

MSG POSTED MAY 16, 1986 3:39 PM EDT MSG: PGIG-2496-8353

#### UNIVERSITY OF CALIFORNIA, SAN DIEGO

BERKELEY . DAVIS . IRVINE . LOS ANGELES . RIVERSIDE . SAN DIEGO . SAN FRANCISCO



LA JOLLA, CALIFORNIA 92093

INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS, A-025

September 16, 1986

Prof. Henry M. Stommel Woods Hole Oceanographic Institution Woods Hole, Massachusetts 02543

Dear Hank:

I hope you are well. I have just returned from a week of WOCE meetings in London and the principal topic was your work on the formation of deep currents.

I heard that you have written a new book that is entitled "Views of the Sea" or some similar title. Could you tell me how I might be able to get a hold of a copy?

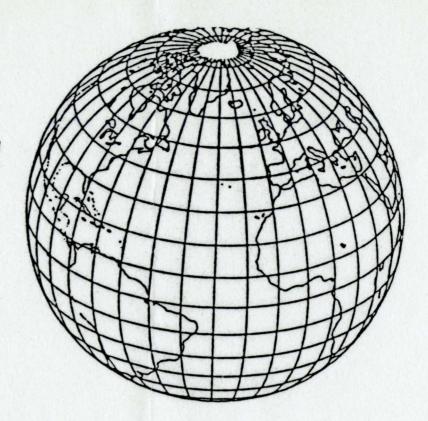
Judy and I send our very best wishes,

Walter H. Munk

WHM/jrd

(1986?1

Henry Stommel
Woods Hole Oceanographic Institution
woods hole, massachusetts 02543



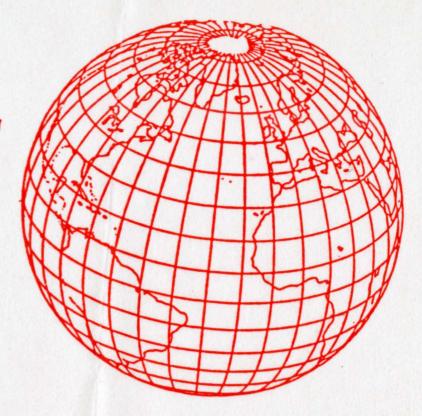
Sept 17

Dear Walter,

Just a note to thank you for
the splendid letter of supeport for
Jim Juyten's promotion. I do hope
it proceeds O.K. — his collaboration
means much to me.

yours Luly Hand

## Henry Stommel Woods Hole Oceanographic Institution woods hole, massachusetts 02543



Dear Walter,

My new book "A View of the Sea" is coming out this Spring - Premistore University Press, It is already at the printers. I'll send you a copy when I get some.

With hest regards & lave to you & Judy.

Henry

Sept 22 '86