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University of Tokyo
1-15-1 Minamidai
Nakano-ku, Tokyo 164
Japan

February 22, 1977


Professor Dale F. Leipper
Naval Postgraduate School
Monterey, California 93940
U. S. A.

Dear Professor Leipper:

Thank you very much for your kind letter informing me you are going to try another annual exchange of "letters from oceanographers" as we did about 19 years ago. I am very pleased to take part in your plan ~~me~~ to open another exchange from this year. I will not hesitate to cooperate with you and wait for your letter you might send me about two weeks before May 1, 1977.

I hope to lament the regretted deaths of Dr. Sverdrup, Townsend Cromwell, Art Lockley and Estil Hammil.

Yours very truly,



Koji Hidaka

KII/so

Dr. Dale F. Leipper, Chairman
Department of Oceanography
Naval Postgraduate School
Monterey, CA 93940

William V. Kielhorn
520 N Street S. W. #S-27
Washington, DC 20024

23 April 1977

Dear Dale:

I am very pleased that you have taken the time and effort to reinstate the "letters from oceanographers." It is amazing, and a little frightening, to be among an "old-timers" group, when it seems to be only yesterday when I was a brash neophyte, and you were just defending your thesis.

Much has happened during these past ten years. I left Lockheed about then, and went into business on my own. This worked out all right for a while, but soon it appeared that the bubble of oceanographic popularity would soon burst. So I went back into the government in ONR, where I stayed until my retirement in July of 1975.

As many of you know, I've long been a strong proponent of airborne oceanography, and have devoted my time since retirement to that field. Unfortunately, I got hooked up with a well-known national concern whose credentials proved to be false, so I quit forthwith. Then, I joined a very small company which is devoted entirely to airborne oceanography, and have been most pleased with them, and with prospects for the future. The Coast Guard gave us a little contract for work on the ARGO MERCHANT oil spill last December, and we had a ball. Now, we are starting on a Bureau of Land Management contract to do extensive work on Georges Bank, and that will keep us out of mischief for a year or so.

Things haven't gone too well on the personal side. On New Year's Day my Sara became ill and was hospitalized. She had been my constant companion in travels all over the world, including a stint as my "first mate" on a 3000-mile trip in our little sloop NEREUS in 1975. She died on the 6th of February, and I can only thank the Dear Lord for those wonderful eight years we had together.

Please note my new address. I expect to keep Washington as "home base" for the foreseeable future.

With very best regards,



William V. Kielhorn



DEPARTMENT OF THE NAVY
NAVAL OCEAN SYSTEMS CENTER
SAN DIEGO, CALIFORNIA 92152

IN REPLY REFER TO:
Code 013
8 March 1977

Dr. Dale F. Leipper
Naval Postgraduate School
Monterey, California 93940

Dear Dale,

RE NEWSLETTERS:

To adequately summarize 19 years of career and other activities could run to many pages so I shall skim the annual highlights, especially those related to travel, from a log which we have kept over many years for historical purposes. Katherine and I have been employed by the Naval Undersea Center (and funded by King Couper) which institution periodically changes its name and is now called Naval Ocean Systems Center. Though our NUC work frequently requires travel, we have occasionally taken leave to accept short term assignments with other organizations offering prospects for travel and change of activity.

Highlights of our annual activities: 1958 - This year afforded me the opportunity of circumnavigating the world in 20 minutes, i.e., in a 2-mile radius under the ice at the north pole; later visiting (Sverdrup's haunts) Norway, Belgium, and England. 1959 - Installed an oceanographic tower off Mission Beach from which internal waves and other studies were made for many years, all without sea (sick) motion. 1960 - Katherine and I attended the IUGG Assembly in Helsinki; later in the year I joined the NAGA Expedition in Thailand and Vietnam (as an employee of S.I.O.). 1961 - I started both aqualung and submersible diving, the latter in TRIESTE; this year the lab acquired a towed thermistor chain (which beats taking BTs), and we towed it to the Pacific Science Congress in Honolulu. 1962 - Towed the chain to the Gulf of California; and later in the year, Katherine and I went to India on a lecture tour where we visited Indian marine science schools and laboratories prior to participating in the International Indian Ocean Expedition. 1963 - We conducted the first cruise of the R/V ANTON BRUUN in the Bay of Bengal and Andaman Sea (as employees of W.H.O.I.), returned via Italy and France. 1964 - Again took leave from my lab to serve as UNESCO Deputy Director of the Office of Oceanography in Paris, where I organized training programs and meetings, one of which was a meeting in Algiers for Directors of marine laboratories around the Mediterranean. 1965 - Participated in the Boundary Expedition with the chain off Central America, and concentrated on internal wave studies from the tower. 1966 - Made 11 dives in DEEPSTAR along the California and Mexican coasts; later participated in the Pacific Science Congress in Tokyo; and later in the year, took leave to visit India to promote cooperative oceanographic programs (employed by Smithsonian). 1967 - Again off to India, this time sponsored by ONR to investigate possible use of PL480 funds for joint oceanographic programs, but the red

tape scuttled it; later in the year, I participated in the IUGG Assembly in Bern; and later in an Inter-American Naval Research Conference in Rio de Janeiro. 1968 - Made 3 dives in DEEPSTAR in the Gulf of California carrying the Explorers Club flag No. 175; resigned as Head, Marine Environment Division, to become Senior Scientist and Consultant for Oceanography at NUC, which supposedly offered more travel and research, and less administration, but reduced funds and facilities did not allow full achievement of these objectives; Katherine and I established a business called "LaFond Oceanic Consultants", which over the past 9 years has proved most useful. 1969 - Served as U.S. delegate to a Monaco meeting for the Cooperative Study of the Mediterranean, and afterwards visited La Spezia; later, Katherine and I were invited by Brazil to participate in a symposium in São Paulo on Fertility of the Sea. Enroute, we visited Panama City and Caracas. 1970 - While attending the General Assembly of the International Association for the Physical Sciences of the Ocean in Tokyo, I was elected secretary of IAPSO. This made a major change in my activities because the position entails a lot of writing to representatives in 75 countries, organizing meetings, etc., which necessitated curtailing much of our oceanographic work; later in the year, Katherine and I were sent to South Vietnam to evaluate current and potential marine science. This involved a flight to Nhatrang in a military plane amid shelling. It also afforded another visit to India (my eighth) and Thailand; later in the year, we attended an IUGG Assembly in Moscow at which IAPSO organized part of the program. USSR living and sights revealed a different way of life. 1972 - We attended the Alaskan Science Congress in Fairbanks as representatives of AAAS. It also afforded a visit to Prudhoe Bay to view mountains of oil pipe and to enjoy a nostalgic look at the beautiful but miserably cold Arctic Ocean where I had previously spent 5 summers. A friend's car made it possible to tour the bumpy roads of this spectacular state; later in the year we traveled to Edinburgh for the International Congress on the History of Oceanography and a look at Loch Ness. I believe Nessy is a surface manifestation of internal waves, developed by subsurface oscillations in the long narrow basin. This trip was followed by participation in an International Ocean Development Congress in Tokyo. 1973 - I retired in June as an economy move by NUC, and, as prearranged, was immediately rehired at reduced pay on an emeritus program. In theory, this was an advantage to all, but a retired person loses authority, etc.; later, I flew to London on IUGG business, and while there participated in the World Congress of Underwater Activities. 1974 - This was a busy but enjoyable time organizing IAPSO's First Special Assembly held jointly with meteorologists in Melbourne; afterwards we toured part of Australia and returned home on a luxury liner which is a far cry from oceanographic vessels; later we drove to the Mexican National Oceanographic Congress held in Guaymas. This made it possible for us to tour the smooth new Baja, California, highway; the year's last trip was to Guayaquil and Quito, Ecuador, to attend a SCOR meeting. 1975 - A consulting job for Bangladesh took Katherine and me to London; this was also the year of IAPSO's General Assembly in Grenoble, a large affair with many arrangements to make. Afterwards, we spent a week at Lacombe's "castle" in southern France and later drove to Italy and Yugoslavia. 1976 - We toured the U.S. in spring, and in the fall,

IAPSO participated in the Joint Oceanographic Assembly in Edinburgh, at the conclusion of which we drove around rural Ireland. 1977 - At this writing, we are planning to again drive to D.C. for the spring AGU meetings and later this year will fly to Durham, England, for an IUGG meeting to plan the next General Assembly; and so it goes. Some say there are too many meetings, but all are well attended, and there are more and more oceanographers anxious to "tell and show". We thoroughly enjoy traveling and seeing our friends at scientific-social doings, altho keeping abreast of world oceanographic programs has materially reduced our own output of papers. But there are plenty of others actively producing.

In the last few years, oceanographic projects have tended to become large interlaboratory and international group affairs which is probably more practical in solving major geographical problems, but it is hard to abandon the single person studies. These small scale studies are usually more feasible for scientists in developing countries, and so one of my IUGG projects is to prepare a chapter for a manual for those wishing to conduct oceanographic studies with little money and simple equipment. Any suggestions will be welcome. Another project is an article on my version of the history of oceanography at Point Loma.

Our 2 boys and 2 grandchildren are nearby in San Diego. Katherine and I work closely on IAPSO programs in our NUC (now NOSC) office. With a sailboat and a desert retreat, we are taking more and more time off, in the realization that the younger generation, with its computers, can generate sufficient problems all by itself.

After resigning as chairman, I stayed at Texas A&M for another four years and had the chance to spend some time in research. A major activity during this period was conducting cruises annually in the coolest and warmest months in the Gulf of Mexico. These observations led to some papers about the way in which hurricanes affect the underlying oceans and to a synoptic description of how the loop current in the Eastern Gulf changed over a 16-month period. Both of these research areas have developed considerably and the original papers are quoted more now than they were when they first came out.

In 1968 the Naval Postgraduate School was ready to form a Department of Oceanography (the oceanography program had grown up within the Department of Meteorology. This is interesting because exactly the reverse had happened at Texas A&M.) I was approved for the position of Chairman and two weeks after I arrived here, in August 1968, a new department was authorized. Thus, I have the satisfaction and the pleasure of knowing that I was the first chairman in each of two different and important academic oceanography programs. At the Postgraduate School much of the groundwork had been laid by Warren Thompson, Jack Wickham, and Glenn Jung before I arrived and each of them still plays an important role on our faculty here. With common interests in synoptic oceanography it was not difficult to adapt after leaving Texas A&M.

One of the unique and important features about environmental education at the Postgraduate School is that a meteorological graduate is equally qualified in oceanography. Graduates of this joint program are specialists and spend their entire navy careers in assignments concerning the environment. Also we have a two-year program in oceanography for line officers leading to the master of science. These officers work throughout the Navy. They do have several meteorologically oriented courses but they are primarily physical oceanographers.

Next Fall we are introducing a new option in our master's program in oceanography. This option is in hydrography. It was initiated because of the interest from the commissioned corps of NOAA. Navy officer students and government employee civilians will also enroll.

We have been spending quite a bit of time lately in short courses and in continuing education. We are well along in devising a self-instructional course 'Survey of Oceanography'. Also, we have offered three 2-week short courses for meteorologists of NOAA introducing them to the physical basis for marine forecasting. Then, too, we are presenting the short courses to naval personnel in the patrol squadrons at NAS Moffett Field.

It is interesting that a fog paper which I wrote at Scripps in 1948 lay dormant for some 25 years. About 5 years ago ONR and NAVAIR reviewed their programs in relation to Navy needs and selected marine fog for greater emphasis. Bob Renard of NPS meteorology and I became involved

and we now have a project in its fourth year with a considerable range of activities under this subject. Also, I am very pleased to see a continuation of the hurricane-ocean interaction work at NPS done mostly by Dr. Elsberry in Meteorology and Dr. Roland Garwood in our Department.

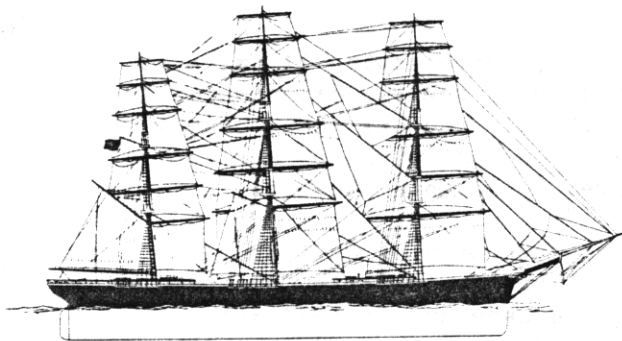
As to the family, we live about 12 miles inland at 850' elevation. We have a quiet 3-acre place bought from Texas by telephone. (We had relatives check it out here.) We moved all of our animals and children in 1968. After some 20 years Virginia continues to be very active in Girl Scout work. Our oldest daughter, Diane, works in a reception service in Reno and lives in Verdi in a very old pleasant ranch house on the Truckee River. Janet married a Texas A&M graduate about 5 years ago. He has just completed his MBA at Oregon State and they have a home very near the campus there in Eugene. He has a private accounting business. Anita went to Lassen Community College in Susanville, CA, about 80 miles northwest of Reno. She is still there and is employed full time in an urban social work program. She lives in a little cabin at the edge of the pines and seems very happy there. After his BS in physics Bryan earned his teaching credential and has been at home with us for two years doing substitute teaching. It did not appear possible to get a regular position so he applied for other kinds of jobs. Just a week ago he left for Newington, Conn. where he will be in the Club and Training section of the American Radio Relay League. He seems very much enthused over this opportunity. Mother is 94 and is in a convalescent home here. Virginia's Dad at 83 lives in Chloride, Arizona.

Things are relatively quiet around our house. We welcome visitors for dinner or for overnight. Our home phone is 408-659-4130.

Sincerely yours,



DALE F. LEIPPER



JOHN LYMAN
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Chapel Hill, N. C. 27514
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5 February 1977

Consultant in Maritime History, Nautical Vexillology, and the Ocean Environment

Professor Dale Leipper
Monterey, CA.

Dear Dale:

I was glad to have your letter suggesting a resumption of our annual communications.

This finds me retired in Chapel Hill, North Carolina. We came down here in 1968, when I was offered a position as Marine Science Coordinator for the Consolidated University of North Carolina, with professorships in the Department of Geosciences at North Carolina State (Raleigh) and the Department of Environmental Science and Engineering at the University of North Carolina at Chapel Hill. The two campuses are about 22 miles apart, and we use the same airport to fly to Washington.

After five years, which included getting a Sea Grant for the university system and watching the consolidated university grow from four campuses to 15, I was able to retire, and I am now taking life easy, adding to my nautical book collection, and doing a little consulting. This involves such matters as serving as a contributing editor for "Sea Technology" and spending a few days every month or so participating in licensing hearings for new nuclear power plants for what used to be the Atomic Energy Commission and now is the Nuclear Regulatory Commission.

I had retired from the Federal Government in 1966, my last post being Oceanographic Coordinator of the Bureau of Commercial Fisheries. I managed to make myself sufficiently obnoxious there for them to abolish the position, enabling me to take early retirement. Then followed two years of full-time consulting, much of it partly with the Office of Naval Research as Program Director for Chemical Oceanography and partly in New York with the United Nations, in the early stages of the activity that eventually turned into the Sea-Bed Committee.

In 1967 I spent a month looking at oceanography in Poland, as part of the National Academy of Sciences exchange program, and in 1971 did the same in Bulgaria. These exchange programs are tremendously educational, in my opinion, and I recommend them to all of you.

Mitchell has found Chapel Hill very much to her liking. Before we left Maryland, she had become interested in the Unitarian-Universalist persuasion,

and she has been very active in the local group, representing it twice at national meetings. She also has taken a course in poetry, organized a local group that meets monthly to discuss their writings, and has won a couple of statewide awards. And during the school year she participates in a weekly session that teaches English to wives of foreign graduate students.

My older son, after trying in turn the University of California at Santa Cruz, the U.S. Naval Academy, and the University of North Carolina, enlisted for a four-year hitch in the Navy. He came out in 1974 with a wife, son, and step-daughter and the rating of Gunner's Mate Second Class and since then has been completing work for a B.A. in history, here at the Chapel Hill campus, under the G.I. Bill.

The younger son went directly from Chapel Hill High School to the University here and is now a Junior, on the Dean's List, majoring in Business Administration. He lives in the dormitory (though we see him weekends) and is active in intramural basketball, running, and darts.

As to me, I find it a great relief not having either to practice grantsmanship or to meet a class in chemical oceanography three mornings and one afternoon a week. I have made good use of my library by contributing nautical terms to the Supplement of the Oxford English Dictionary. For several years, up to 1977, I was Secretary of the National Maritime Historical Society. More recently I have been involved in organizing the North American Society for Oceanic History, and I am currently a member of its Council, which will hold its first meeting at Salem, Mass., in March.

I have also spilled over into the study of flags, and after a term as Vice-President am currently Treasurer of the North American Vexillological Association. And I am also editing the newsletter of the North Carolina Society of Mayflower Descendants, a group that both Mitchell and I belong to.

Having become an adopted Tar Heel, it was with great satisfaction that I watched Carter become first the Democratic candidate and then the elected President last year, although I have never had any great personal inclination to become involved in politics myself. North Carolina has its own brand of politics, which takes a little while getting adjusted to after California and Maryland. It was a great revelation, for example, to watch a proposal for legalizing liquor by the drink being defeated by a decisive two to one vote a couple of years ago. But then North Carolina was the home of Josephus Daniels, who made the Navy dry over 60 years ago! The result is that anyone who wants to drink in a restaurant has to bring his own bottle, which insures plenty of drunks on the highways after dark.

I'll close this with a warm invitation for any of you who happen to find yourselves in the vicinity to give me a call. Having no office hours, I am always available.

Sincerely,

John Zeman



DEPARTMENT OF ATMOSPHERIC SCIENCES
LOS ANGELES, CALIFORNIA 90024

February 16, 1977

Dear Dale:

I have been even less of an oceanographer in recent years than earlier, but since I would enjoy very much reading the letters from a number of former associates I shall send a brief account of my activities during the 19 years since the last distribution of "Letters from Oceanographers" so that I will not be left out of this one.

It is a long period to cover. In the early part of it I participated actively in national and international scientific affairs, serving as president of the American Meteorological Society and the Meteorological Section of the AGU, as a member of the U.S. Delegation to the Fifth Congress of the World Meteorological Organization, as a consultant to the WMO, on several committees of the National Academy of Sciences, and on the Council of the AAAS. In recent years my activities of this type have been almost nil.

My research during this period was mostly in the field of cloud physics, but with some return to activity in air pollution. I have guided the dissertations of several Ph.D. candidates, some of whom were quite outstanding.

Together with two colleagues I published a textbook "Understanding Our Atmospheric Environment" in the elements of meteorology for non-science students. It was reasonably successful and the publisher has asked me to undertake a revision of it soon. I am now preparing a book on air pollution, also for non-science students.

On the personal side, my wife of many years and I were divorced and I have remarried. Mandatory retirement from UCLA comes for me at the end of June 1978. I have not yet decided what I shall do then. I tell everyone that I shall, like Ferdinand the bull, sit under a tree and smell the flowers, but people don't seem to believe that I'll be satisfied with that very long. I certainly will also do a lot of reading of books, etc., that I haven't had time for, but I am not eager to enter the job market if it means reducing the available openings for young people.

Yours,


Morris Neiburger
Professor

MN:s