

Date: Mon, 30 Nov 92 07:34:29 -0700  
From: Tim Seastedt <tims@culter.colorado.edu>  
To: adub@lternet.washington.edu  
Subject: message/report for Jerry

file  
copy

Kay Gross's "Future of Long-term Data Sets for Ecological Research" meeting in St. Louis went very smoothly. You might want an interim report from Kay to present to the CC meeting in April. Kay has made this her ESA Vice President's project, and the Mellon Foundation appears very willing to support her in this effort. I think this will eventually provide a major boost to both the Synthesis Center effort and to the lter section of ESA.

Caroline was there...Still feeling shakey, but apparently ready to do something positive. She's ready to proceed and mentioned the desire to get the tentative program for the All Scientists Meeting organized well before April. If there must be a meeting (and Caroline thought there might be a need to get whatever group now represents the program committee together), I'm willing to host it. Actually, I believe some heavy-duty email and a conference call could do the job, especially given funding constraints.

Great snow out here this year, but I haven't gotten the skis out, yet.  
cheers, trs

NATIONAL SCIENCE FOUNDATION  
WASHINGTON, D.C. 20550

*Jornada*

December 29, 1992



OFFICE OF THE  
ASSISTANT DIRECTOR  
BIOLOGICAL SCIENCES

Dr. J. D. Collinson  
Assistant Deputy Minister  
State of the Environment Reporting  
Environment Canada  
Ottawa, Ontario  
K1A 0H3

Dear Dr. Collinson:

Thank you for your letter of November 30 which we received on December 18, 1992, in which you propose opportunities for linking our mutual interests in long-term ecological research. There is no better way to begin exploring collaboration than by you and other interested Canadian scientists joining discussions with the network of U.S. scientists involved with the NSF Long-Term Ecological Research Projects. I am confident that there is much in common to discuss with benefits to all parties from sharing new ideas and past experiences in the areas of collaborative research, monitoring and information management and exchange. Since you have had earlier discussions with Dr. Franklin, I am asking him to communicate directly with you regarding the up-coming Executive Committee Meeting in late February at Trout Lake.

I think that further participation by you and other staff at the LTER All Scientists meeting in Colorado in September would be an excellent next step. I have not seen the full agenda for the Trout Lake meeting, but I expect that the All Scientists meeting will be a major topic. Again, Dr. Franklin can provide further details, now and as plans develop. I am enclosing a short description (with a tentative agenda) that we are sending to a number of international collaborators.

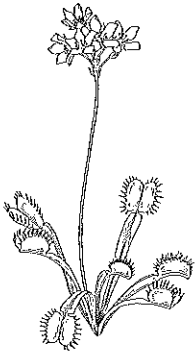
I am pleased that Environment Canada is interested in exploring opportunities of mutual interest in the area of long-term ecological research and monitoring. I look forward to these new relationships and the scientific progress that will occur.

Sincerely,

Signed by Mary E. Clutter  
Mary E. Clutter  
Assistant Director

Enclosures

Copy to: Dr. Jerry R. Franklin  
Chair, LTER Coordinating Committee  
University of Washington



DEPARTMENT OF BOTANY

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DUKE UNIVERSITY  
DURHAM, NC 27706

4 March 1992

Dr. Jerry Franklin  
LTER Network Office  
College of Forest Resources AR-10  
University of Washington  
Seattle, Washington 98195

Dear Jerry:

I have checked with the co-investigators of the Jornada project, and we are all in enthusiastic agreement that the site would be ideal for the Spring 1993 meeting of the LTER coordinating committee. Sometime this fall let's discuss the housing and meeting room requirements that you prefer.

Good to see you in Trout Lake.

Sincerely,

William H. Schlesinger  
Professor  
Botany/Geology

Telephone: (919) 684-3715  
FAX: (919) 684-5412  
Telex: 802 829 DUKTELCOM DURM

AW  
FVE  
SM

COPY

January 5, 1993

J. D. Collinson  
Assistant Deputy Minister  
State of the Environment Reporting  
Environment Canada  
Ottawa, Ontario  
K1A 0H3 CANADA

Dear Dr. Collinson:

At the suggestion of Dr. Mary E. Clutter, Assistant Director of the Biological Sciences Directorate at the National Sciences Foundation, and on behalf of the Long-Term Ecological Research (LTER) Network, I would like to invite you to participate in the next meetings of the LTER Executive and Coordinating Committees, which will be held at our Las Cruces, New Mexico research site April 1-5, 1993—not Trout Lake, as Dr. Clutter stated in her December 29 letter. I understand that you have already received an invitation to our September 1993 All Scientists Meeting in Estes Park, Colorado. I hope you will consider attending both meetings.

Detailed information about the Las Cruces (Jornada LTER site) meeting, including a tentative agenda and travel and on-site food and lodging information, will be forthcoming. If you or your designee can join us, please inform our Network Office Program Coordinator, Adrienne Whitener (206-543-4853), who will see that you receive relevant mailings. In the meantime, you may wish to peruse the enclosed materials on the LTER Program and contact any of the Network Office staff for further information.

Should you not be able to join us in New Mexico, I would still like to meet with you to explore areas of mutual interest and the potential for research collaboration and exchange between Environment Canada and the LTER Network. I will be on sabbatical in Australia from January 13 through February 13 but, thereafter, I can work with you to find a compatible meeting time and location. Please let Ms. Whitener know if you prefer this option and whether you have any suggestions for where and when we might be able to get together.

I look forward to meeting you.

Sincerely,

Jerry F. Franklin  
Chair, Long-Term Ecological Research Network

JF/sjm

Enclosures

cc: Mary E. Clutter, Assistant Director, National Science Foundation

COPY  
*Jornada*

January 5, 1993

J. D. Collinson  
Assistant Deputy Minister  
State of the Environment Reporting  
Environment Canada  
Ottawa, Ontario  
K1A 0H3 CANADA

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Sincerely,

Jerry F. Franklin  
Chair, Long-Term Ecological Research Network

JF/sjm

Enclosures

cc: Mary E. Clutter, Assistant Director, National Science Foundation



Environment  
Canada

Assistant Deputy Minister  
State of the Environment  
Reporting

Environnement  
Canada

Sous-ministre adjoint  
Rapport sur l'État  
de l'Environnement

Ottawa, Ontario  
K1A 0H3

January 26, 1993

Dr. Jerry F. Franklin  
Chair  
Long-Term Ecological Research Network  
College of Forest Resources, AR-10  
University of Washington  
SEATTLE, Wa 98195  
U.S.A.

Dear Dr. Franklin:

Thank you for extending a personal invitation to participate in both the meetings of the Executive and Coordinating Committees. Prior to these meetings of the Long Term Ecological Research Network, I may have the opportunity to meet with Dr. Mary Clutter in Washington to discuss our initiative of developing a network of ecological science centres. Based on the literature which you have forwarded and conversations my staff have had with LTER staff, we share many similar interests.

When you have returned from your sabbatical in mid February, it may be useful to briefly discuss our individual initiatives. This should help clarify how we can most effectively take part in LTER's meetings in Las Cruces. Beyond participating in the sessions myself, I would like to have Ed Wiken attend. He is the Managing Director of our Ecosystem Science and Data Management Branch.

Based on your suggestion, we will contact Adrienne Whitener to inform her of our intentions and to enquire about other material related to the LTER meetings. For your reference, I have attached a copy of a recent presentation which we gave to our senior management committee. It outlines many of the basic considerations which will be incorporated in our ecological monitoring and research initiative.

Again, thanks for your invitation to participate.

Yours sincerely,

J.D. Collinson

Encl.  
cc: Dr. M.E. Clutter

Canada



CANADA'S GREEN PLAN  
LE PLAN VERT DU CANADA

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Imprimé sur du papier recyclé

AW

To: Fred Swanson, Chair Executive Comm  
Tim Seastedt, Chair, LTER/CC meeting  
Bob Waide, Chair, closed session, LTER/CC  
Caroline Bledsoe  
John Vande Castle

March 29, 1993

From: Jerry Franklin

Subject: Expectations for the Executive and LTER/CC meeting in NM

My apologies and thanks to you for picking up my responsibilities at the upcoming LTER meeting. I will be at the Forest Summit and associated activities on Friday and Saturday as one of the participants, something I that I felt I couldn't pass up.

The main business for both the Executive and LTER/CC meetings at Las Cruces is the All Scientist meeting and the associated International LTER Summit. Many items remain to be resolved for these meetings which are only 5 months off. This includes financial arrangements (how the Network Grant's travel dollars are to be utilized), responsibilities for organizing workshops and contacting non-LTER participants and collaborators, etc. Issues associated with the International workshop include a hosting plan (so that each foreign participant has an LTER host throughout the main meeting).

#### Executive Committee

What the executive committee traditionally has done is to go through the same items that are on the main LTER/CC agenda, primarily to see if prep work needs to be done and, if so, to do it.

At this Executive meeting, I think that the main job is for the group to do as much ground work as possible in identifying and proposing action to the full committee on issues having to do with the All Scientist meeting. Specifically, I think that you have to develop one, or no more than two, alternatives for how the Network grant travel \$ will be spent. Major issues are some degree of fairness and practicality (i.e., with the UW financial constraints); I think that all sites have to get at least some support but the high expense sites should, as previously, get a disproportionate amount of the Network support. We do have more \$ to work with than we thought because we believe that we will get additional \$ from NSF to support the international session. Be sure to calculate in both N. Inlet and the Antarctic Dry Valley

sites at least some level of participation.

You will also have to take the lead with the Canadian of exploring what kind of role they want to have as proposed cosponsors of the International summit. I would suggest that Caroline act as point on this but that the whole group take part in the discussion.

Jim Gosz is still planning to have lunch with you on Friday. Take full advantage of this meeting to identify any issues that need to be addressed on Saturday.

I would propose that our next Executive Committee meeting be on June 3-4 in Washington, DC. I also am planning on a limited LTER/CC meeting in the PNW in the spring of 1994 to deal with our future organizational structure. By limited, I mean 1 representative per site, only.

Decide in the Executive Committee whether you want to go ahead with the election of the new member at the full meeting on Saturday. If you do, someone should effectively present my proposal to enlarge the Exec to 4, keeping the existing 3 for the next year + electing a new one. If you do NOT want to do this (it is really my job and notion), put off a vote on my proposal and the new slate to an email ballot. I would actually prefer this so that I can make my case personally.

#### LTER/CC Meeting

Main item of business is the All Scientist meeting. It needs to get done even if you have to have an evening session to complete the work. Items:

Financial Plan

Program

WHAT ARE ALL THE ELEMENTS OF THE PROGRAM?

Workshops on various subjects

Collaborative ventures with

Supercomputer centers

NASA

USGS

GIS center at Santa Barbara

Canopy research consortium

LTER group meetings

Data managers

Climate

etc.

WHO IS RESPONSIBLE for each program element?



And making sure that they know what is expected of them

#### LIST OF INVITEES

Other organizations and sites, such as Smithsonian, NPS, USFS, etc.

Other individuals that we want present as workshop participants.

WHO IS RESPONSIBLE for inviting each of these?

Also, again, hosting plan for foreign participants in our All Scientist meeting.

I am taking the responsibility for the invitations for the International Summit so that suggestions are welcome but you do not need to worry about the details on this. We do expect about 30 foreigners and 10 Americans at the summit.

Most of the other activities at the LTER/CC should be straightforward. The closed session maybe the best time to talk about the 10 year review which, in my view, is going extremely well for LTER.

I think that this covers my critical expectations for this meeting.  
Thanks!

John Hobbie

Date: Wed, 31 Mar 93 10:50:50 PST  
From: Adrienne Whitener <adub@lternet.edu>  
To: John Vande Castle <jvc@lternet.edu>  
Subject: fyi

FYI: here's a copy of a message from John Hobbie. I gave it to Jerry, but he probably didn't have a chance to deal with it yet or to decide if it should be brought up at the Exec meeting. -- Adub

> Date: Mon, 29 Mar 1993 11:39:02  
> From: jhobbie@lupine.mbl.edu (John Hobbie)  
> Subject: Re: Jornada Meeting Agenda  
>  
> Dear Adrienne:  
> Please pass this info on to Jerry Franklin. Thanks  
>  
> Jerry:  
> The LMER coordinating committee will soon send an unsolicited proposal  
> and letter to EMAP suggesting that EMAP set up annual grants of \$100,000 to  
> each LMER site. These will be for the purpose of having the LMER group  
> continue intensive monitoring of site characteristics that would complement  
> the EMAP measurements (e.g., time intensive oxygen measurements) for the  
> purpose of providing detailed variability and trend data. Another purpose  
> would be for testing various indicators of ecosystem status that are now or  
> might be suitable for inclusion into EMAP.  
> EMAP needs the participation of good ecological scientists in the  
> development and testing of their indicators. We can not tell whether or not  
> EMAP will survive the next few years but we need to begin this process of  
> requesting funds as it will take several years. Why not make LTER a part of  
> this letter/proposal to EMAP? Can this be a topic for the LTER Exec. Comm.?  
> See you at Jornada. Regards, John Hobbie  
>  
>  
>  
>

1. Bring up at closed session at 4:15 in Coord. Comm. Meeting.
2. Consider workshop at All-Scientist Meeting with EMAP people.

TERRESTRIAL ECOLOGY DIVISION  
UNIVERSITY OF PUERTO RICO

1) JUC

2) RN

3) SM

4) aW

last) Jerry

April 12, 1993

Dr. Jerry Franklin  
University of Washington  
College of Forest resources  
AR-10  
Seattle, WA 98195

Dear Jerry:

We missed you at the CC meeting, but we all enjoyed watching you on TV. I'm looking forward to a first-hand account the next time I see you.

The closed session at the CC meeting went off well, and I think that it was a useful exercise. We covered the following points.

1. Bruce Hayden noted that the ecosystem panel is having a tough time getting acceptable numbers of proposal reviewers to respond. Bruce suggested that LTER scientists take this responsibility particularly seriously. If someone is unable to review a proposal, they should inform NSF and suggest another reviewer.
2. John Hobbie discussed the possibility that LTER and LMER propose to EMAP a program of intensive monitoring of site characteristics (see attachment). A strong negative reaction was expressed by Kratz and Schlesinger, who said that LTER should not sully its good name by associating with EMAP. The consensus was that we should invite a representative of EMAP to the AS meeting for a discussion without LTER making any commitment as a network. You need to delegate the responsibility for making this invitation to someone (Hobbie?).
3. There was a brief discussion of the 10-year review process, with general agreement that it was a necessary albeit time-consuming task. General curiosity was expressed about the content of the review committee's report and the responses to the questionnaires. We should pursue with Risser whether the summary of responses will be made available to the sites. If not, the feeling was that sites should be urged to share their responses within the network.
4. We discussed how to improve CC meetings, and the following suggestions were made: 1) about half the agenda consisted of informational items which could be handled by e-mail (Adrienne

took notes on which items were explicitly mentioned),  
2) closed sessions should be included in future meetings,  
3) teleconferences should be used to complement face-to-face meetings, 4) more results-oriented science presentations should be scheduled, and 5) each CC meeting should adopt a particular kind of cross-site comparison as a theme. Sites could then invite interested LTER co-pis as their second representative to participate in a mini-workshop on the selected topic. This might require additional meeting time or a night session.

5. John Hobbie was elected to the Executive Committee on a 10-9 vote. I will be the alternate. Your proposal to expand the committee to four members was accepted with little comment.

All in all, the meeting went smoothly. If you have specific questions, let me know.

Regards,

*Bob*

Bob

LONG-TERM ECOLOGICAL RESEARCH IN THE  
COLORADO RIVER CORRIDOR OF THE GRAND CANYON, ARIZONA

- I. Geographic/hydrologic setting of Colorado River
- a. arid southwest, population dependent on this water.
  - b. flow is c. 16 MAF/yr, May-June flood flow up to 200,000 cfs from mountain snowmelt, low flow of record = 700 cfs
  - c. consumptive use by irrigated agriculture.
  - d. treaty with Mexico, no water reaches Gulf.
- II. Historic setting driven by western water law
- a. irrigation in Imperial Valley, Salton Sea 1904
  - b. Grand Canyon N.P. (Reserve water rights ?) 1919
  - c. Colorado River Compact 1922
  - d. Birdseye survey 1923
  - e. Hoover dam 1936
  - f. Glen Canyon dam 1960
- III. The geomorphic/riparian setting
- a. water from high mountains, sediment from basin and range
  - b. high gradient, deeply incised, gravel bottom
  - c. vegetation; OHWZ dependent on annual flooding, NHWZ
  - d. pre-dam sediment balance was controlled by the annual hydrologic pattern,
  - e. the post-dam sediment balance controlled by tributary sources accumulating because of diminished flood flows.
  - f. location of riparian sediment deposits is controlled by tributary debris fans and their resultant eddy systems.
  - g. sediment distribution in channel and channel-margin deposits controlled by flow regime.
  - h. extirpation of endemic endangered species.
  - i. new ecosystem attributes are artificial and coupled to the flow and sediment regimes imposed by dam operations.
- IV. Summary of the effects of Glen Canyon dam in Grand Canyon N.P.
- a. lower annual floods, 33,000 cfs, 48,000 cfs, 98,000 cfs
  - b. higher annual low flows, 5,000 cfs
  - c. reduced sediment load, clear water
  - d. hypolimnetic release from Lake Powell, cold water
  - e. large daily flow fluctuations following peak load power generation, erodes channel margin deposits
- V. EIS on dam operations and the Grand Canyon Protection Act.
- a. The dam will be operated to achieve management objectives in the Grand Canyon National Park.
  - b. There will be long-term monitoring and research.

CONCLUSION: This 250 mile reach of a major river is a national park. There is a dam at the upstream end of the reach and law mandates manipulative operation of the dam with monitoring and research to assess results.

ROLE FOR NSF/LTER NETWORK IN THE DEVELOPMENT OF THIS PROGRAM

GRM, Las Cruces, 3 IV 1993