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FOR NET

**LTERR Publication of Scientific Synthesis and Collaborative Research:
Progress and Recommendations.**

**A Report to the LTER Network Chair, the LTER Executive Committee,
and for the LTER Coordinating Committee.**

from

The LTER Publications Committee

**Bruce Hayden VCR (Chair), John Hobbie (ARC), David Foster (HFR),
Tim Seastedt (NWT). Ex Officio Members from the Network Office:
Jerry Franklin, Jim Gosz, Stephanie Martin and Caroline Bledose.**

January 10, 1995

Summary

The Publications Committee of the LTER Network was established to encourage the publication of collaborative research and scientific synthesis. We report here the results of our evaluation of the publication contributions to date by the LTER sites and their scientists. The LTER network of scientists is highly effective in the publication of collaborative research and in the publication of scientific syntheses. Two of the LTER sites have completed site synthesis volumes, eight sites are planning such volumes, and one site is considering a second LTER site synthesis volume. To date there have been 20 books and 12 special issues of scientific journals with the leadership of and extensive contribution by LTER scientists. While our survey is as yet incomplete, we find clear evidence that there are dozens of individual articles in book and journals which synthesize the science completed at LTER sites. This substantial progress must be characterized as a "grass-roots" effort as it predates the work of the Publication Committee. We expect that our research community will continue to invest in such higher-level publication activities. To foster this future and to abet LTER scientists in exercising leadership in our science, the publication committee offers a series of recommendations for action by the LTER Coordinating Committee.

Progress in the publication of collaborative research and in the publication of their scientific syntheses.

I. LTER site synthesis volumes

1. Hubbard Brook and Coweeta have published site synthesis volumes
2. KNZ, NWT, HFR, CPR, NTL, LUQ, AND and VCR are planning volumes
3. Coweeta is considering a second synthesis volume at this time.

II. Collaborative research and synthesis volumes that LTER sites and

PIs played a major role in

1. Integrated Regional Models: Interactions between Humans and their Environment. (1994) Ed. Groffman and Likens Chapman Hall (VCR, CPR, NIN, SEV, HBR)
2. Environmental Information Management and Analysis: Ecosystem to Global Scales. (1994) Ed. Wm. K. Michener, J. Brunt and S. Stafford. Taylor and Francis (AND, SEV, NIN, KZN, VCR, CPR, HFR)
3. Towards the Development of a Functional Classification of Plants. Ed. T. Smith, H. H. Shugart and F. I. Woodward (1995). Cambridge University Press (VCR, CPR)
4. Foundations for Ecosystem Research in the Western Antarctic Peninsula Region. Ed. Eileen Hofmann, Langdon Quetin and Robin Ross. (1995) AGU Antarctic Research Series. (PAL)
5. The role of biodiversity in tundra ecosystems. (1995) Ed. F.S. Chapin III) and C. Korner. Springer-Verlag. (ARC, BNZ)
6. Fire in North American Tallgrass Prairies. Collins, S.L and Wallace, L.L. (eds) (1990).Univ. Oklahoma Press, Norman, OK. (KNZ)
7. Climate Variability and Ecosystem Response. Greenland, D. and L.W. Swift, Jr. (eds.). (1988) General Technical Report SE-65, USDA Forest Service, Southeast Experiment Station, Asheville, NC. 90 pp. (all LTER sites)
8. Long-Term Studies in Ecology: Approaches and Alternative Likens, G.E. (ed.). (1988). Springer-Verlag: New York. (HBR, NET)
9. Long-Term Ecological Research, An International Perspective. Risser and J.M. Melillo (eds.).(1991) SCOPE 47. Wiley & Sons, Chichester. (NTL, HFR, SEV, KNZ, VCR)
10. The Birds of Konza. Zimmerman, John L. (1993). University of Kansas Press, (KNZ).

11. Modern Techniques in Soil Ecology. D. A. Crossley and D. C. Coleman et al: Elsevier Science Pub. Amsterdam. (CWT)
12. Forest Hydrology and Ecology at Coweeta Hydrologic Laboratory. L. Swank and D. A. Crossley. (1988) Springer Verlag. (CWT)
13. The Functional Significance and Regulation of Soil Biodiversity. H. A. Collins, G. P. Robertson and M. J. Klug Eds. (1995) Martinus Nihof, The Hague. (KBS, AND, CPR, CWT, KNZ, VCR)
14. Perspectives on Plant Competition. 1990. Eds. J. B. Grace and D. Tilman. Academic Press (CDR)
15. Limnology in Alaska. (1995). Eds. M. Oswood and S. Milner. Springer Verlag. (ARC)
16. Institute of Tropical Forestry 50th Anniversary Symposium Volume on Long-Term Research (Scheduled). LUQ.
17. Tropical montane cloud forests, proceedings of an international symposium. (in press) Eds. Hamilton, L. S., F. N. Scatena, and J. Juvik. East-West Center Publications, Honolulu, Hawaii. (LUQ)
18. Tropical forests: management and ecology. (1995). Eds. Lugo, A. E., and C. Lowe. Springer Verlag. (LUQ)
19. The food web of a tropical rain forest. (1995). Eds. Reagan, D. P., and R. B. Waide. University of Chicago Press, Chicago, Illinois. (LUQ)
20. Soil organic matter in temperate ecosystems: Long term experiments in North America. (1995). Eds. Paul, E.A., K.A. Paustian, E.T. Elliott and C.V. Cole. American Lewis Press, Ann Arbor In Press. (KBS, CPR)

III. Special Journal Issues which highlighted LTER sites, were motivated by LTER research, and were brought to completion with LTER scientists.

1. Hydrobiologica 1992 (ARC)
2. Biotropica 1991. Ecosystem, plant, and animal responses to hurricane in the Caribbean (LUQ)
3. Biotropica 1994. Impacts of Hurricane Hugo/ (LUQ, HFR, NIN)
A third Biotropica volume is scheduled Fall 1995.
4. Virginia Journal of Science. 1990. Biota of the Virginia Barrier Islands. Vo. 41, no. 4A. (VCR)
5. Ecological Applications (in press 1995) (VCR, CPR & NIN)
6. Climate Change Patch (in press 1995) (VCR, CPR, ARC)
7. Deep-Sea Research (1992) (PAL)
8. Canadian J. of Forest Research 1993 (BNZ)
9. Ecological Modelling Volume (1993). "Special issue: long-term ecological research and regional prediction". (CPR)
10. J. of Geophysical Res. (1992) Fife Experiment (KNZ)
11. Ecological Applications (1992). New perspectives, ecosystem management. Vol. 2 #3 (CWT)
12. BioScience. (1990). LTER. NTL, NET,

III. Individual Synthesis Articles: A survey on the part of the publications committee on this type of synthesis publication is not complete at this time.

Recommendations for the Coordinating Committee

1. All sites should consider the benefits of completing a site synthesis volume.
2. In consultation with the executive, coordinating and publications committees and the LTER Chair, the Network

Office should establish a support structure to 1) aid in the develop proposals for workshops and symposia that will lead to published LTER volumes, and 2) at the request of the LTER PI editor of a volume, assist and help coordinate development of peer review team for individual volumes

3. The Network Office should promote the development of resources to assist PIs in completing synthesis publications.
4. LTER scientists are encouraged to undertake special issues of Journals to publish site and intersite research with their colleagues.