

Bibliography of Recent Literature in the History of Meteorology

Twenty Six Years, 1983-2008

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The following is a bibliography of recent secondary literature in the history of meteorology, broadly conceived. It is presented in chronological order a) to illustrate the growth of history of meteorology as field in the throes of self-definition, and b) because an artificial schema, whether based on subject, region, period, or discipline, would fail in the face of the diversity of the materials represented. It is intended as a tool for students entering the field, a refresher for those already in it, and a reference for historians in other fields.¹

History of the Project

The bibliography project began in November 2003 at the History of Science Society Annual Meeting in Cambridge, MA. James Fleming² organized a session and a subsequent wildcat dinner for ICHM members. At the session, and afterwards, Fleming told me that the IUHPS had requested that its commissions produce bibliographies for the World History of Science Online Project. I offered that I had already compiled a fairly large bibliographic database while completing my dissertation.³ Because of what I found to be the paucity of literature in the historiography of meteorology when I started my dissertation research, I had gathered everything I could find. Fleming suggested making a more formal project of it. As there were other bibliographic resources for older material, we decided that twenty years of recent historiography would be the most useful. The following year I presented a poster (figure 1) describing the project at the ICHM meeting in Poling, at which time the raw database had grown to over 700 titles. Afterwards, as I pursued my own research interests, the database sat on the back burner, but continued to grow in size and scope, with contributions by Fleming and others, and occasional bursts of bibliographic work of my own. We discussed the state of the project at the 2008 Pittsburgh HSS meeting. At a thousand titles covering 25 years, it was time to stop. The field had grown to the

¹ The author would also gladly share the raw data. Contact bmv2108@columbia.edu. Special thanks are due to the members of ICHM and the anonymous reviewers of this bibliography for contributing sage advice, translations, and hundreds of additional references.

point where keeping up with things was too much work for one person, and where the end product, a traditional bibliography, would be soon superseded by electronic formats. Another year's work, and additional help coming from Roger Turner's announcement on the ICHM website, brought the bibliography to nearly 1600 titles, covering a twenty-six-year time span.

Scope

The initial choice of twenty years as a span for the project was in some sense natural. Twenty is a round number, and representative of what we conceive of as "recent." Fleming and Roy E. Goodman had recovered the historiography of meteorology prior to the twentieth century,⁴ but the largest English-language bibliography on more recent work in the field was Brush and Landsberg's 1985 work, which contained the historiography of meteorology and geophysics to that point in one volume.⁵ Recent work had not been covered. The third reason is more historiographical. The early 1980s saw the field of meteorology expanding in the US. It was a notably neglected field within the history of science, which now saw new people coming in from the fields of science, history, and literary studies. Earlier historiography was sparse (for examples of what was available, see Hessenbruch's *Readers' Guide to the History of Science* (2000)).⁶ In 1977, H. Howard Frisinger was able to write a modest-sized monograph covering meteorology from pre-history to 1800.⁷ In 1983, people such as Theodore Feldman were writing about fifty-year periods,⁸ representing greater specialization within history of science, and scholars such as Arden Reed were opening up the cultural context from outside the field.⁹ Similar developments were likewise happening throughout the scholarly world.

As for the other extreme of the scope, indecision whether to produce something in print, or something entirely electronic, left the project in limbo, even as the data accumulated. The decision to terminate the collection at twenty five years resulted in the actual cessation at twenty six. The closer to publication date the better.

Selection

² Author of the forthcoming *Fixing the Sky: The Checkered History of Weather and Climate Control* (Columbia University Press, 2010), and founding editor of *History of Meteorology*.

³ Brant Vogel, "Weather Prediction in Early Modern England" (Dissertation, Emory University, 2002).

⁴ James Rodger Fleming and Roy E. Goodman, eds., *International Bibliography of Meteorology: From the Beginning of Printing to 1889: Four Volumes in One: Temperature, Moisture, Winds, Storms / Edited by James Rodger Fleming & Roy E Goodman* (Upland, Pa.: Diane Pub. Co., 1994), James Rodger (with Simone L. Kaplan) Fleming, "Historical Writing on Meteorology: An Annotated Bibliography," in *Historical Essays on Meteorology, 1919-1995*, ed. James Rodger Fleming (Boston: American Meteorological Society, 1996), Roy E. Goodman, "Archives, Libraries and Bibliography in the History of Meteorology Prior to 1900," *History of Meteorology* 1 (2004).

⁵ Stephen G. Brush, Helmut E. Landsberg, and Martin J. Collins, *The History of Geophysics and Meteorology: An Annotated Bibliography* (New York: Garland, 1985).

⁶ Katharine Anderson, "Meteorology," in *Reader's Guide to the History of Meteorology*, ed. Arne Hessenbruch (London & New York: Fitzroy Dearborn, 2000), Brant Vogel, "Meteorological Instruments," in *Reader's Guide to the History of Science*, ed. Arne Hessenbruch (London & Chicago: Fitzroy Dearborn, 2000).

⁷ H. Howard Frisinger, *The History of Meteorology, to 1800*, 2nd printing. ed. (Boston, Mass.: American Meteorological Society, 1983).

⁸ Theodore Sherman Feldman, "The History of Meteorology, 1750-1800: A Study in the Quantification of Experimental Physics" (Dissertation, University of California at Berkeley, 1983).

⁹ Arden Reed, *Romantic Weather: The Climates of Coleridge and Baudelaire* (Hanover and London: UP of New England, 1983).

The selections for this bibliography are idiosyncratic. It comes from diverse sources, and most of it depends on the cataloging of countless others. Therefore this is not an annotated, or even digested, list. It contains mostly scholarly works, but not all from the field of history. Some textbooks have been included, educational materials, television programs, popular works, self-published works, data sets, and collections of photos. I tried to make my best estimate of whether a given item might contain some historical work (of whatever quality or political bent) useful to the scholar.

The definition of ‘meteorology’ was also somewhat amorphous. I included an account of a discussion of earthquakes if the period was before the eighteenth century; I would accept rainbows if still within the Aristotelian or Cartesian understandings of meteorology. Many particular topics diverged from the meteorological discourse which nevertheless should be included for these earlier periods. Astrology, so long as it concerns astrometeorology, is another such area.

Climate, which was distinct from meteorology, is another case altogether. It came to converge with meteorology in the modern era. Because of its close relationship to meteorology at present, and because of contemporary concerns which are a large part of why the history of meteorology has grown as it has, titles which would have been more properly categorized under history of climatology are also included. Environmental history, likewise, is another such field.

Certain titles verge on being primary rather than secondary. These are usually synthetic reports of meteorological data that nevertheless present historical information about data sources that, of necessity, recount the circumstances of the data gathering.

Electronic publishing has become pervasive in the period covered by the bibliography. But when an item is available in more than one medium, I have listed the print edition as the primary citation. “Permanent URLs” have yet to have proven their permanence, and the library catalogs of most universities will suggest the electronic alternatives.

Finally, there are many entries in languages I do not read (and more in those I don’t read well).¹⁰ I put a certain faith in my sources, and in my ability to trace the authors within their scholarly networks. This is an international project, and I searched as widely as possible.

Analysis

The historiography of meteorology, and the more general interest in meteorology, weather, and climate, seem to have expanded exponentially in recent years. Figure 2, which represents the number of titles in the bibliography arranged by year, would support this intuition. I think this rapid growth does represent such interest. However, there are several other factors, including the general expanse of academic publishing as a whole, the growth of new media, and the founding of institutions such as ICHM and the journal *History of Meteorology*, with the accompanying individuation of history of meteorology, which also play into it. Besides the expanding of academic publishing and media, the topicality of climate concerns, in particular, has been a significant external influence, just as it has, no doubt, brought many into the field.

¹⁰ N.B.: There will also be many orthographic inconsistencies in non-English titles due to the limitations of US-authored bibliographic software.

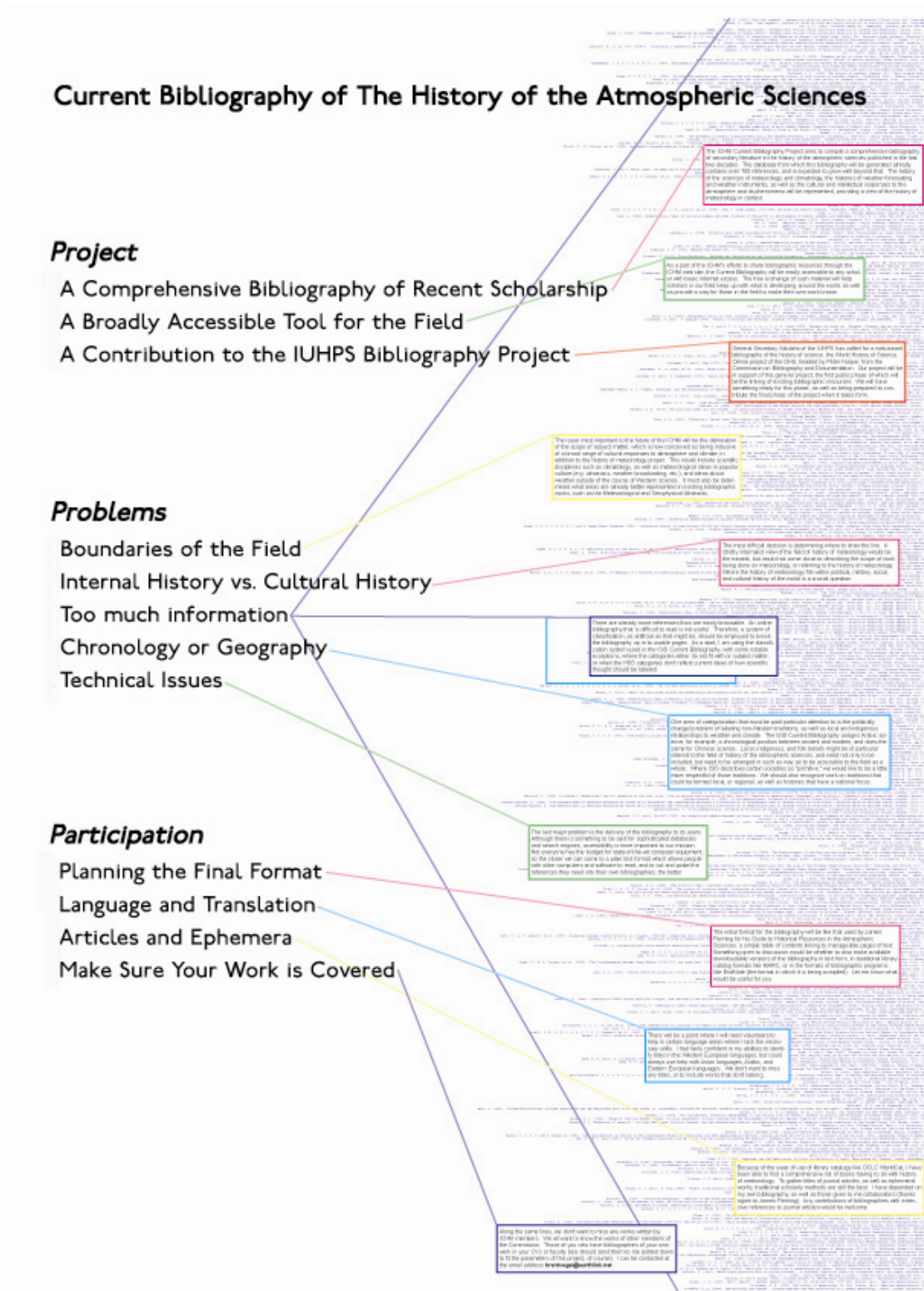


Figure 1: Poster from ICHM 2004, Poling

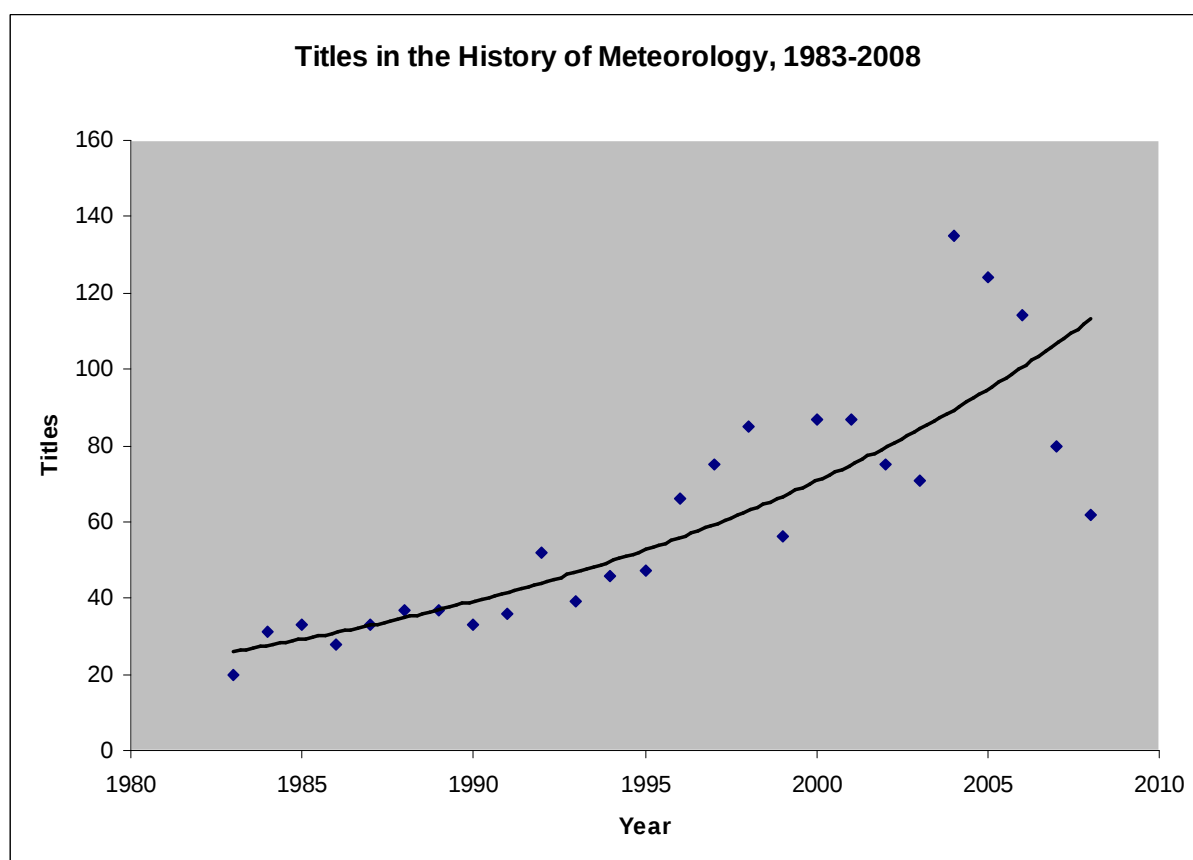


Figure 2: Distribution of Publication

Chronological Bibliography**1983**

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