

# Betty Petersen Memorial Library News

NOAA Science Center

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## Special points of interest:

- New Fortran95 and Fortran2003 seminar
- Learn more about C/C++ using books in the library
- Get started with podcasting!
- Call for presenters
- Several historical manuscripts added to library collection

## Upcoming orientations and workshops for February

**Library Orientation:** Friday, Feb 6 at 12pm in WWB Rm 103 (library)

New to the NOAA Science Center Building? Unfamiliar with NOAA Library resources? The Betty Petersen Memorial Library offers a 20 minute library orientation once a month. Come familiarize yourself with the library collection and learn about resources available to you from your workstation desktop.



**Fortran95 and Fortran2003, Part 2: What can Modules do for you?** Thursday, Feb 12, 10:45am-12pm, Conf. Rm 707:

Modules allow for the application of new packaging concepts in Fortran95. With modules, one can apply the techniques of

encapsulation and information hiding. When used judiciously, these concepts enhance code re-usability and ease its maintenance. In this seminar, we'll cover the features and benefits of using modules in your Fortran95 code. We'll also spend a little bit of time talking about moving beyond Fortran95 into the world of Fortran2003's object-oriented goodness. Presented by Paul van Delst of the Joint Center for Satellite Data Assimilation as part of the **Library Technical Seminar Series**.

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## Books on C/C++ in the library

Although you may or may not have gotten the opportunity to attend Dr. Robert Grumbine's presentation on programming with C/C++ last month, you can still learn more about this language on your own using library-held materials. Here a few of the books recommended by Dr. Grumbine:

Glasse, R. (1993) *Numerical computation using C*, Academic Press, Boston. QA76.73.C15 G57 1993

Jones, R. S. (1991) *The C programmer's companion : ANSI C*

*library functions*, Silicon Press, Summit, NJ. QA76.73.C15 J658 1991

Kernighan, B. W. and Ritchie, D. M. (1988) *The C programming language*, Prentice Hall, Englewood Cliffs, N.J. QA76.73.C15 K47

Oualline, S. (1997) *Practical C programming*, O'Reilly, Cambridge ; Sebastopol, CA. QA76.73.C15 O84 1997

Schildt, H. (1990) *Teach yourself C*, Osborne McGraw-Hill,

Berkeley. QA76.73.C15 S3537 1990

Stroustrup, B. (1997) *The C++ programming language*, Addison-Wesley, Reading, Mass. QA76.73.C153 S77 1997

For a complete list of library-held books on C/C++ with comments, plus a pdf copy of Dr. Grumbine's presentation entitled, "Introduction to C/C++ for Fortran Programmers," see the library website at <http://www.lib.ncep.noaa.gov/itresources/>

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## Podcasts



A podcast is a digital audio or video recording made available through syndicated download from the Internet. Podcasts are a fun and easy way to keep up with news and happenings in your field. Here are some popular podcasts of interest:

[National Weather Service– Baltimore/Washington Area NOAA Weather Radio](#)

[Weirdfins](#): “A NOAA Fisheries Service Web site and weekly podcast “feed” about strange - and sometimes just plain bizarre - creatures that inhabit the sea”

Some older NOAA podcasts can be found at: <http://www.podcast.noaa.gov/>

[Science Podcast](#)– weekly podcast highlighting some of the most interesting findings in Science magazine

[Scientific American Podcasts](#)– choose from their daily “60-Second Science,” “60-Second Earth,” or weekly “Science Talk”

[Science Friday](#)– The podcast for the popular weekly science program on National Public Radio

[Radiolab](#)– Another National

Public Radio science program, produced by WNYC, examining where “boundaries blur between science, philosophy, and human experience”

[Nature Podcast](#)– a weekly podcast highlighting content from Nature magazine, including interviews and in-depth commentary and analysis

For a more information about podcasting, and a great explanation of how to get started, check out this page at the Nature journal site: <http://www.nature.com/podcast/help/index.html>



National Academies Press books are available in pdf online, or print copies can be ordered for free for requesters using a government email address.

## Books of interest at National Academies Press

[Antarctica: A Keystone in a Changing World](#) (2008)

[Observing Weather and Climate from the Ground Up: A Nationwide Network of Networks](#) (2008)

[Exploration of Antarctic Subglacial Aquatic Environments: Environmental and Scientific Stewardship](#)

(2007)

Dr. Jane Lubchenco, NOAA Administrator Appointee, is also a member of the National Academies and has contributed to the following reports available at NAP:

[Ecological Impacts of Climate Change](#) (2008)

[Increasing Capacity for Stewardship of Oceans and Coasts: A Priority for the 21st Century](#) (2008)

[Nature and Human Society: The Quest for a Sustainable World](#) (1997)



Do you have any programming skills you'd like to share?

## Call for presenters on technical topics

The library has launched a new series of seminars focused on technical subjects. The next presentation in this series will take place at 10:45am on 2/12 with a seminar on Fortran95 and Fortran2003 by Paul van Delst of the Joint Centre for Satellite Data Assimilation. The library is currently seeking volunteers to present future seminars.

If you are interested in presenting on any of the following topics, please contact the librarian at [michelle.k.campbell@noaa.gov](mailto:michelle.k.campbell@noaa.gov)

- Java
- PHP
- Fortran
- C, C++
- Python

- Ruby
- ASP
- Google Earth
- Any other topics of interest

If there are any other software programs or languages that you would like to present, or to see presented, please notify the librarian.

## New additions to library catalog

Over 100 items were added to the library catalog in December 2008. Included among the additions are:

American Meteorological Society. 2000. *11th Symposium on Global Change Studies, 9-14 January 2000, Long Beach, California ; Symposium on Lidar Atmospheric Monitoring, 9-14 January 2000, Long Beach, California*. Boston, Mass.: The Society.

Hall, Dorothy K., and J. Martinec. 1985. *Remote sensing of ice and snow*. London ; New York:

Chapman and Hall.

Research Systems Inc. 1999. *Building IDL applications*. Boulder, Colo.: Research Systems.

———. 1999. *IDL reference guide*. 3 vols. Boulder, CO: Research Systems.

———. 2004. *What's new in IDL 6.1*. July, 2004 ed. Boulder, Colo.: Research Systems.

*Using IDL*. 1999. Boulder, Colo.: Research Systems.

World Climate Research Programme., and GEWEX Cloud Systems Study. 2000. *Workshop on Cloud Processes and Cloud Feedbacks in Large-scale Models*, European Centre for Medium-range Weather Forecasts, Reading, Berkshire, United Kingdom, 9-13 November 1999, Wmo/Td. Geneva, Switzerland: Joint Planning Staff for WCRP, World Meteorological Organization.



To locate these or any other books in the library collection, check the library catalog at <http://www.lib.noaa.gov/uhtbin/webcat/> Make sure to select Betty Petersen Memorial Reading Room as your library!

## Historic Manuscripts added to collection

Thanks to a generous donation from a researcher in the building, the library is now in possession of a number of manuscripts and other documents of historic import. Included in this collection:

Clapp, Philip F. 1954. *The Practical application of the barotropic vorticity equation to extended forecasting*. (Manuscript)

Clapp, Philip F. 1951. *Recent researches of direct application to extended forecasting*. (Manuscript)

Clapp, Philip F. 1959. *Remarks on some operational models for extended-range forecasting of the mid-tropospheric circulation..* (Manuscript)

Clapp, Philip F. and Robert R. Dickson. 1950. *Prognostic usefulness of vorticity paths applied to a*

*spherical Earth*. (Manuscript)

Clapp, Philip F. 1944. *Empirical studies of the motion of long waves in the Westerlies*. (Manuscript)

Clapp, Philip F. 1948. *Further empirical studies of wave motion in the Westerlies*. (Manuscript)

Clapp, Philip F. 1946. *Preparation of prognostic mean charts by statistical methods*. (Manuscript)

Gilman, Donald L. *The effects of forecaster confidence on five-day temperature probabilities*. (Manuscript)

Haney, Robert L. 1961. *Verification of 5-day numerical prognoses in terms of harmonic analysis*. (Manuscript)

Klein, William H. et al. 1961. *The interrelation between daily and mean*

*components in objective temperature forecasts*. (Manuscript)

Leight, Walter G. and J. Doyne Sarter. 1948. *Verification of objective monthly temperature forecasts*. (Manuscript).

Wallace, Mike. 1965. *Extra-terrestrial influences on rainfall* (Manuscript)

Wexler, H. 1936. *Cooling in the lower atmosphere and the structure of polar continental air*. (Reprint from *Monthly Weather Review*)

Winston, Jay S. 1948. *An experiment with a 10-day regression chart*. (Manuscript)

Please see the librarian to view any of these documents.

To reserve any of these items, please email

[michelle.k.campbell](mailto:michelle.k.campbell@noaa.gov)

[@noaa.gov](mailto:michelle.k.campbell@noaa.gov)



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