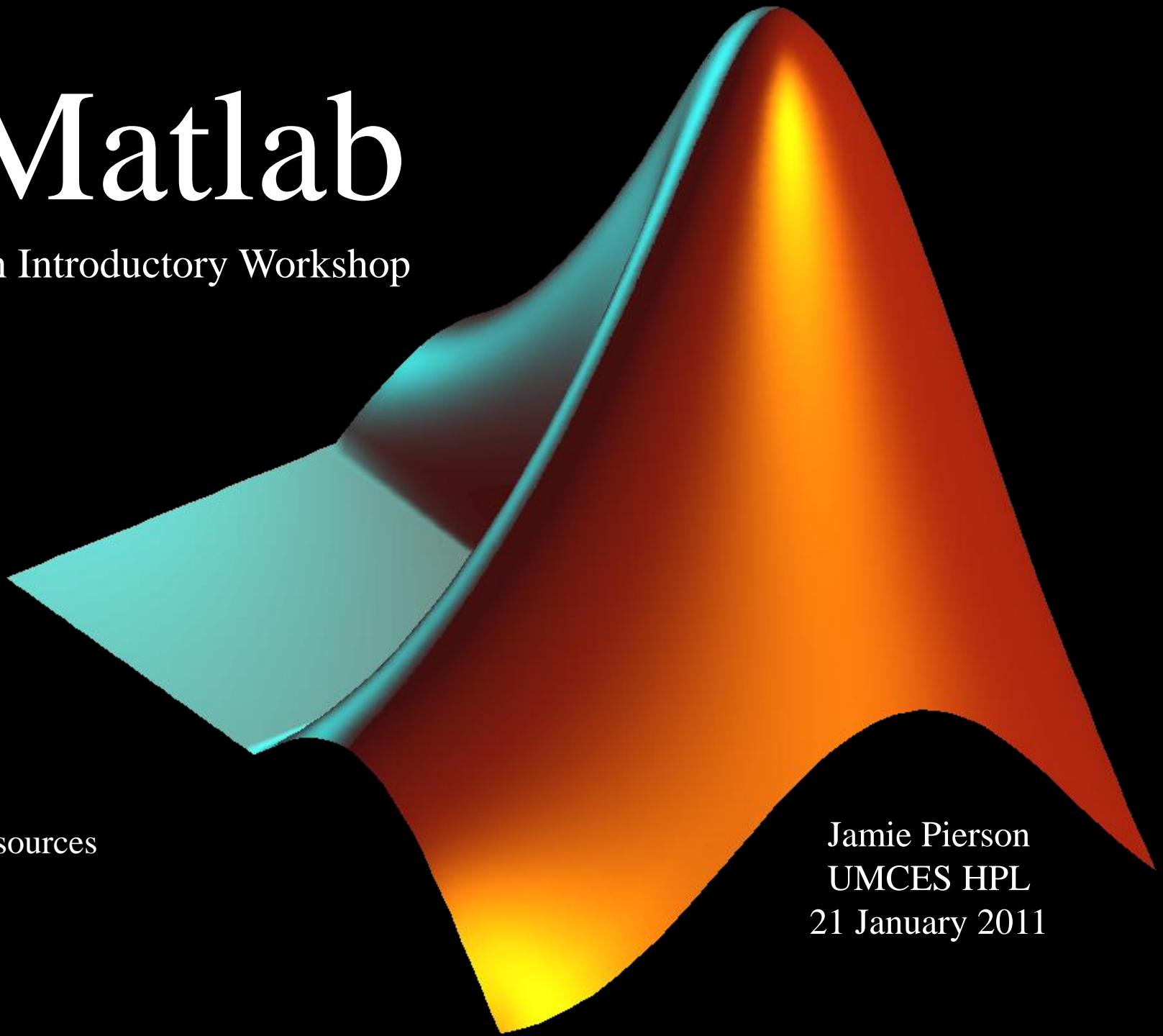


Matlab

An Introductory Workshop

Resources

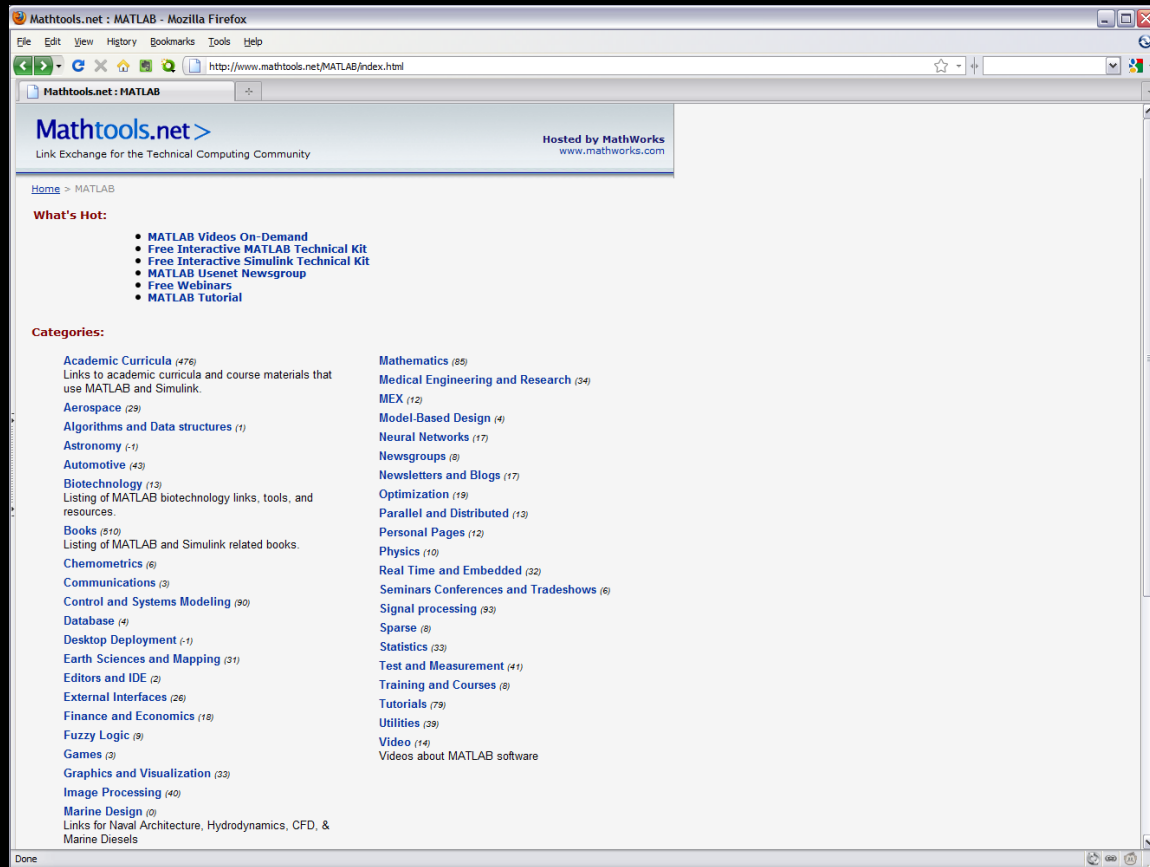
Jamie Pierson
UMCES HPL
21 January 2011



Resources For Matlab

It is likely that someone has done something similar to what you want to do. Maybe even for a different application. So it doesn't hurt to look around and try to find it.

It is also likely that the complex equation you are trying to code is available, so spend some time reading the help documents



Mathtools.net

<http://www.mathtools.net/MATLAB/index.html>

MATLAB Central - Files - Mozilla Firefox

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http://www.mathworks.com/matlabcentral/fileexchange/

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Date	File	Tags	Downloads (last 30 days)	Comments	Ratings
20 Jan 2011	"MEX" Modified Hausdorff Distance for 2D Point Sets This function quickly computes the Modified Hausdorff Distance (MHD) for 2D point sets. Author: SasKanth	hausdorff distance, signal processin, modified hausdorff di..., mex, image processing	4	0	
20 Jan 2011	Gabor Filter GUI Design apply and learn the Gabor Filter via GUI. Author: Nikolay S.	gabor filters, gui, image processing, filter bank, gabor	4	0	
19 Jan 2011	Finite Difference Laplace Equation Solver using unequal square grid xy grids. Finite difference (central) method is applied and solution is used to solve Laplace's equation. Author: sunil anandatheertha	simulation, computational fluid d..., finite difference, automotive, laplace equation, aerospace	2	0	
19 Jan 2011	Number of packets arrived in one slot compute by arrive rate Author: Ke	simulation, communications, statistics		0	
19 Jan 2011	mPlot - Enhanced Plotting Engine Enhanced plotting engine that extends the basic plotting functionality delivered with Matlab. Author: Erik Lee	objectoriented progra..., oop, plotting, data visualization, unique line colors	40	0	

Done

Mathworks File Exchange

<http://www.mathworks.com/matlabcentral/fileexchange/>

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
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SEA-MAT

Matlab Tools for Oceanographic Analysis

 A collaborative effort to organize and distribute Matlab tools for the Oceanographic Community 

[Mailing list](#) [Submitting M-files](#) [Master Index of LOCAL M-files](#)

[Time Series Tools](#) [Numerical Modeling Tools](#) [Mapping Tools](#) [Hydrographic Data Tools](#) [Data Interface Tools](#) [Miscellaneous Tools](#)

Time Series Tools

- [T_Tide](#): A full-featured tidal analysis package written in Matlab! by Rich Pawlowicz, Bob Beardsley and Steve Lentz.
- [Air-Sea](#): Compute surface wind stress and heat flux components from buoy and shipboard atmospheric and near-surface oceanographic time series measurements. Developed by Bob Beardsley and Rick Pawlowicz. This is version 2.0.
- [Timeplit](#): Stacked x-y and vector stick plots with Gregorian time labeling from Rich Signell. See also [Timeplit5](#)
- [Bobstuff](#): Vector Correlation, Complex Correlation, and other tools from Bob Beardsley (WHOI)
- [RPS Stuff](#): Miscellaneous time series tools from Rich Signell, a PPM image reader and writer, a program to read SeaBird CTD .CNV files, and more.
- [ADCP to package](#): Simple but robust tools to read RDI raw and processed binary data into MATLAB. Tested for a number of different WH, NB, and BB instruments with various firmware versions. From Rich Pawlowicz.
- [RDI Workhorse ADCP==>NetCDF](#): This toolbox is for fixed platform self-contained Workhorse data collection. Developed by Jessica Cote, Marina Martini, Fran Hotchkiss, and Chuck Denham at the USGS Woods Hole Field Center.
- [ADCP Tool Box](#): This toolbox is a set of documented Matlab scripts that convert RDI data into NetCDF format. From Andree Ramsey.
- [Cross Wavelet and Wavelet Coherence](#) - for examining relationships in time frequency space between two time series. From Aslak Grinsted, Arctic Centre, University of Lapland.
- [JLAB](#): Matlab freeware for data analysis by J. M. Lilly. 300+ heavily tested functions including industrial strength wavelet and time series analysis tools.

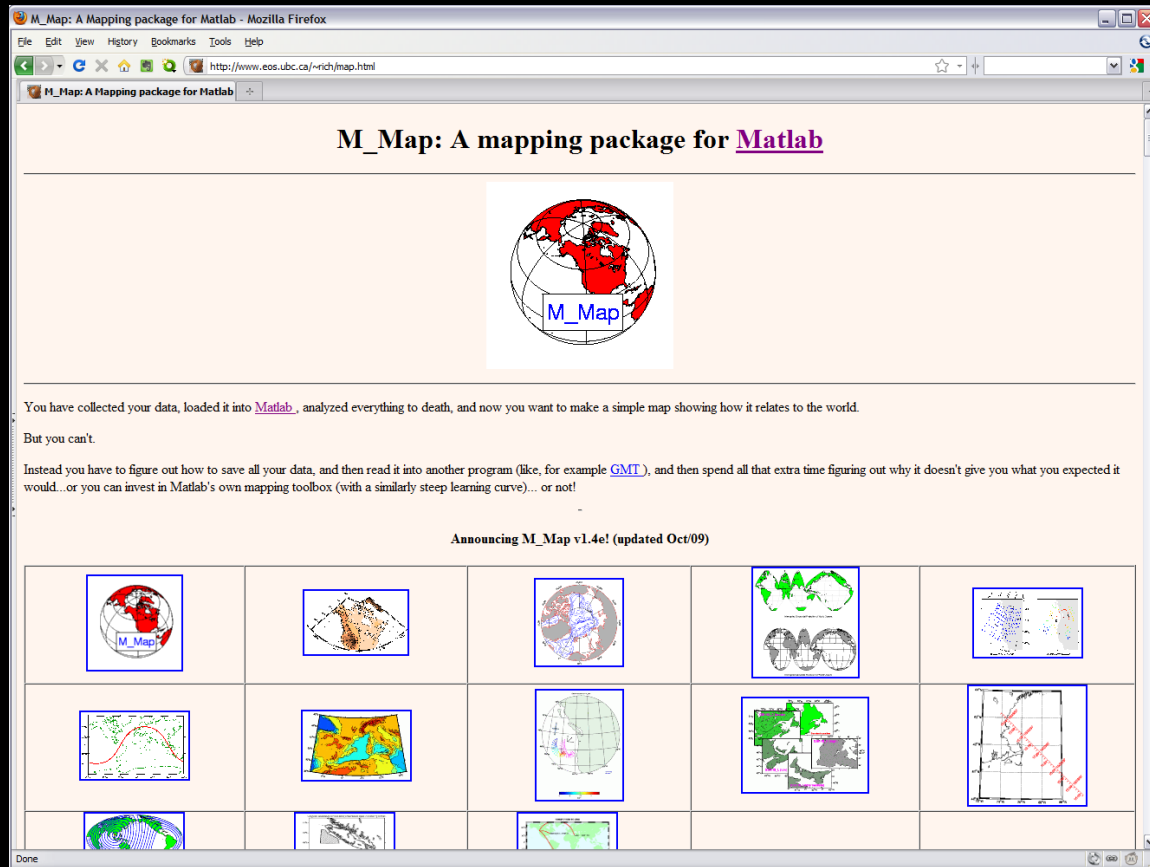
Numerical Modeling Tools

- [NetCDF-Java Toolbox \(nJTbx\) for Matlab](#): - nJTbx implements the Unidata Common Data Model (a generalization of the NetCDF, OpenDAP and HDF5 data models), so can read both local and remote NetCDF-3 and NetCDF-4 files, data from OpenDAP and ADDE servers, as well as GRIB, GRIB2, HDF4, HDF5, BUFR, URF and TDWR files. nJTbx also uses high-level methods to return geospatial coordinate data (lon, lat, z and time) from "CF Compliant data" (uniform, rectilinear, or curvilinear horizontal coordinates, and fixed level or terrain-following vertical coordinates), which allows standardized access to a variety of local and remote bathymetry, remote sensing, atmospheric and oceanic modeling results.
- [OM-Viz](#): Visualization and Analysis tools for SCRUM, ECOM and POM Ocean Models from Rich Signell.
- [HOPS GUI](#): - Visualization tools for the Harvard Ocean Prediction System (HOPS) by Pedro Velez.
- [HISWA-Viz](#): Visualization and Analysis tools for the HISWA wave model from Jeff Iist.
- [Ocean Processes Numerical Modeling Laboratory \(OPNML\) Matlab Library](#): Tools for working with the Dartmouth Finite Element Circulation Models

Done

SEA-MAT

<http://woodshole.er.usgs.gov/operations/sea-mat/>



m_map

<http://www.eos.ubc.ca/~rich/map.html>