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IMPORTING AND EXPORTING DATA EXAMPLE 1: THE PRECIPITATION

This example show you how to load a simple data set and plot it.

The PDXprecip.dat file contains two columns of numbers. The first is the number of the month, and the second is the mean precipitation recorded at the Portland International Airport between 1961 and 1990. Here are the MATLAB commands to create a symbol plot with the data from PDXprecip.dat.

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EXAN	MPLE 1: TI	HE PRECIPITAT	
	PD	Xprecip.dat	
	1 2 3 4 5 6 7 8 9 10	5.35 3.68 3.54 2.39 2.06 1.48 0.63 1.09 1.75 2.66	
 ✓ Docur write the 	11 12 ments → MATLAE table above and s	5.34 6.13 3 → R.Click :New → Text D save it as PDXprecip.dat	ocument





















script-file myNivada.m :
% Filename: myNivada.m
% by Thaer O. Roomi (2014)
% This program plots the values of temperature, sunlight radiation,
% Average pressure, and Relative Humidity for hourly averages
% versus the time (hours) for four months (1,2,3 and 4) 2007.
clear all
[num txt]=xlsread('nivada.xlsx');
year=num(:,1); day_of_year=num(:,2); hour=num(:,5);
DateNumber = datenum(year,month,day,hour,0,0);
temperature=num(:,8);
sunlight=num(:,7);
pressure=num(:,11);
relhum=num(:,12);

















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IA	• L2	$\int \int Jx = 10$	NGWAVE SOLAP	RADIATION	2	
	A	В	С	D	E	
1	LONGWA	VE SOLAR RADIA	TION			
2	Time	e (hour)	Wm^-2			
3	1 10/2	21/2014 12:00:0	366.946			
4	1 10/2	21/2014 12:15:0	375.059			
5	1 10/2	21/2014 12:30:0	377.508			
6	1 10/2	21/2014 12:45:0	379.093			
/	1 10/	21/2014 1:00:00	3/1.259			
8	1 10/.	21/2014 1:15:00	3/1.807			
10	1 10/.	21/2014 1:30:00	360.323			
11	1 10/2	21/2014 1.45.00	335.704			
12	1 10/	21/2014 2:00:00	352 121			
12	1 10/	21/2014 2:13:00	340 177			
14	1 10/2	21/2014 2:45:00	343 073			
15	1 10/2	21/2014 3:00:00	347.619			
16	1 10/3	21/2014 3:15:00	342,998			
17	1 10/2	21/2014 3:30:00	341.575			
19	1 10/	21/2014 2:45:00	227.010			



















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	А	В	С	D	E	
1	time	AOD				
2	2/24/2000	-9999				
3	2/25/2000	-9999				
4	2/26/2000	0.319				
5	2/27/2000	-9999				
6	2/28/2000	0.154				
7	2/29/2000	-9999				
8	3/1/2000	-9999				
9	3/2/2000	0.672				
10	3/3/2000	0.13				
11	3/4/2000	0.648				
12	3/5/2000	-9999				
13	3/6/2000	0.414				
14	3/7/2000	0.465				











4	A	В	C	D	E	F	G	Н	1	J	K	L	M
1	YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2	2000		0.2365	0.41529	1.1095	0.70592	0.86427	0.99585	0.77067	0.50511	0.33484	0.26739	0.26907
3	2001	0.40765	1.0085	0.91729	0.48491	1.01153	0.4428	0.54707	0.34013	0.2706	0.30467	0.28173	0.39619
ŧ	2002	0.39647	0.99737	0.68375	0.91554	1.01306	0.51392	0.49936	0.36058	0.25871	0.27074	0.28765	0.44325
5	2003	0.42777	1.15969	0.68007	0.865	0.99316	0.46448	0.34255	0.28288	0.29204	0.33648	0.35253	0.53643
5	2004	0.40765	0.97738	0.82175	0.83356	0.9461	0.519	0.3525	0.2564	0.27648	0.32864	0.34144	0.37738
7	2005	0.3725	1.01787	0.73636	0.85738	1.0348	0.56674	0.394	0.35712	0.2686	0.29026	0.3222	0.33795
3	2006	0.32492	0.56709	1.08973	0.68375	0.831	1.09233	0.47874	0.39505	0.28027	0.28816	0.3182	0.344
)	2007	0.40657	1.25045	0.66406	0.949	1.02644	0.55094	0.40806	0.37587	0.25227	0.28735	0.28124	0.37541
0	2008	0.34387	0.99489	0.68365	0.87793	0.99221	0.45882	0.44323	0.38713	0.26276	0.27729	0.31858	0.345
1	2009	0.39939	1.05847	0.74861	0.79443	1.00933	0.46164	0.41017	0.38406	0.25955	0.27074	0.34433	0.33471
2	2010	0.40765	0.8261	1.1015	0.95906	0.78328	0.7512	0.52171	0.34976	0.25437	0.27595	0.32687	0.34113
3	2011	0.39939	1.05847	0.6568	0.94536	0.9353	0.51957	0.391	0.3549	0.2686	0.30904	0.3001	0.35084
4	2012	0.39647	1.13538	0.68861	1.05	0.84507	0.48506	0.3942	0.31889	0.29973	0.29805	0.31671	0.33244
5	2013	0.32492	0.87428	0.80146	0.88556	0.92075	0.62945	0.394	0.32519	0.29973	0.27165	0.39619	0.2998
6	2014	0.39939	0.94839	0.77754	1.04413	0.48506	0.40776	0.30188	0.28894	0.26082	0.33605	0.34014	0.50376
7	2015	0.39939	1.01178	0.91632	0.79831	0.88525	0.5107	0.53	0.2964	0.32519	0.30778	0.29	0.31122
8	2016	0.46296	1.12427										
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1	A	В	C	D	E
1	YEAR	Winter	Spring	Summer	Autumn
2	2000	0.16852	0.74357	0.87693	0.36911
3	2001	0.60411	0.80457	0.44333	0.28566
4	2002	0.61236	0.87078	0.45796	0.27237
5	2003	0.70796	0.84607	0.3633	0.32702
6	2004	0.58747	0.86713	0.37597	0.31552
7	2005	0.57611	0.87618	0.43928	0.29369
8	2006	0.412	0.86816	0.65537	0.29554
9	2007	0.67748	0.87983	0.44495	0.27362
10	2008	0.56125	0.85126	0.42973	0.28621
11	2009	0.59752	0.85079	0.41862	0.29154
12	2010	0.52496	0.94795	0.54089	0.28573
13	2011	0.6029	0.84582	0.42182	0.29258
14	2012	0.62143	0.86123	0.39938	0.30483
15	2013	0.49966	0.86926	0.44955	0.32252
16	2014	0.61718	0.76891	0.33286	0.31234
17	2015	0.57413	0.86662	0.4457	0.30766
18	2016	0.52908	0	0	0
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	A	В	С	D	
1	YEAR	AOD			
2	2000	0.57768			
3	2001	0.39505			
4	2002	0.41225			
5	2003	0.48392			
6	2004	0.41922			
7	2005	0.57921			
8	2006	0.45174			
9	2007	0.48676			
10	2008	0.625			
11	2009	0.666			
12	2010	0.5359			
13	2011	0.57806			
14	2012	0.66496			
15	2013	0.52937			
16	2014	0.43436			
17	2015	0.46795			
18	2016	0.27859			