



HOW TO CALCULATE VALUE AREA FOR FREE

Step by step guide

To use Market Profile, many futures brokers will charge you for the data from \$75 to \$500 per month. Obviously for a new trader this is a cost that is absolutely not justified.

Another issue with futures market is that some of the cross pairs that we trade at Angelo Capital are only available in the forex spot market.

So while getting a market profile data served on a silver platter is great, to this day I still have to go old school and do the MP value areas calculations the way they used to it in the pits: get the price then use it to calculate Value by hand. Ok – so maybe we can skip the “by hand” part and use one of the readily available online market profile calculators.

You’re going to need:

1. Excel spreadsheet program
2. Historical data from <https://www.dukascopy.com/swiss/english/marketwatch/historical/>

OR

From a London-based server Metatrader 4 – London Capital Group is one option, with realtime MT4 charts and servers. FXCM MT4 is good as well.

3. And finally the MP calculator <http://www.mypivots.com/investment-calculators/market-profile-calculator>

I will warn you that this method takes a bit of getting used to and it’s not the easiest of steps, but what it will do is give you an accurate Value Area.

For those who have tried using various available MT4 Indicators that claim to calculate MP, I will tell you now that NONE of them is doing it right. Each and every one uses 24-hour calculation that changes Value area as you change the timeframe. This is not the correct way of calculating VA.

To get the Value Area, we only need 30 min data, with only highs and lows that begin at Wall Street opening time and end half hour before Wall St close. For most instruments this time is from 14:30 to 20:30. But there are a couple of exceptions to this. I shall mention them later.

But first, lets go to <https://www.dukascopy.com/swiss/english/marketwatch/historical/>

to obtain historical data for the previous trading day.



Once you're there, you'll see the following window:

← → ↻ 🏠 www.dukascopy.com/free/candelabrum/

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DUKASCOPY Swiss Forex Bank & Marketplace **Historical Data Feed**

Forex ▾ 🔍 Search instrument list...

Crosses ▸ ☐ **AUD/CAD** Australian Dollar vs Canadian Dollar

Majors ▸ ☐ **AUD/CHF** Australian Dollar vs Swiss Franc

Metals ▸ ☐ **AUD/JPY** Australian Dollar vs Yen

☐ **AUD/NZD** Australian Dollar vs New Zealand Dollar

☐ **AUD/SGD** Australian Dollar vs Singapore Dollar

☐ **CAD/CHF** Canadian Dollar vs Swiss Franc

☐ **CAD/HKD** Canadian Dollar vs Hong Kong Dollar

Candlestick: 1 ▾ Tick ▾ Date: 2015-01-12 📅 Volume unit: Volume units ▾

Offer side: BID ASK [Download](#)

The next few steps are EXTREMELY IMPORTANT to get right. I've had students struggle with settings so please make sure you do these changes EXACTLY in the right order.

As I'm writing this, it's 20th January at 22:00. The data I desire for tomorrow's trading is today's highs and lows on 30 minute candlestick. The first thing I want you to click is on field that says "tick" and change it to "minute":

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Forex ▾ 🔍 Search instrument list...

Crosses ▸ ☐ **AUD/CAD** Australian Dollar vs Canadian Dollar

Majors ▸ ☐ **AUD/CHF** Australian Dollar vs Swiss Franc

Metals ▸ ☐ **AUD/JPY** Australian Dollar vs Yen

☐ **AUD/NZD** Australian Dollar vs New Zealand Dollar

☐ **AUD/SGD** Australian Dollar vs Singapore Dollar

☐ **CAD/CHF** Canadian Dollar vs Swiss Franc

☐ **CAD/HKD** Canadian Dollar vs Hong Kong Dollar

Candlestick: 1 ▾ Tick ▾ Date: 2015-01-12 📅 Volume unit: Volume units ▾

Offer side: BID ASK [Download](#)





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Swiss Forex Bank & Marketplace

Historical Data Feed

Forex ▾

Crosses	▶	<input type="radio"/> AUD/CAD	Australian Dollar vs Canadian Dollar
Majors	▶	<input type="radio"/> AUD/CHF	Australian Dollar vs Swiss Franc
Metals	▶	<input type="radio"/> AUD/JPY	Australian Dollar vs Yen
		<input type="radio"/> AUD/NZD	Australian Dollar vs New Zealand Dollar
		<input type="radio"/> AUD/SGD	Australian Dollar vs Singapore Dollar
		<input type="radio"/> CAD/CHF	Canadian Dollar vs Swiss Franc
		<input type="radio"/> CAD/HKD	Canadian Dollar vs Hong Kong Dollar

Candlestick: 1 ▾ Minute  From date: 2015-01-12 

Offer side: To date: 2015-01-17 

Volume unit: ▾

After you've done that, the option to add "to date" will appear.

Since I'm looking for data from today, I first change the "to date" to be 20th January 2015:



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Forex ▾ 🔍 Search instrument list...

Crosses	▶	<input type="radio"/> AUD/CAD	Australian Dollar vs Canadian Dollar
Majors	▶	<input type="radio"/> AUD/CHF	Australian Dollar vs Swiss Franc
Metals	▶	<input type="radio"/> AUD/JPY	Australian Dollar vs Yen
		<input type="radio"/> AUD/NZD	Australian Dollar vs New Zealand Dollar
		<input type="radio"/> AUD/SGD	Australian Dollar vs Singapore Dollar
		<input type="radio"/> CAD/CHF	Canadian Dollar vs Swiss Franc
		<input type="radio"/> CAD/HKD	Canadian Dollar vs Hong Kong Dollar

Candlestick: 1 ▾ Minute ▾ From date: 2015-01-12 📅 Volume unit: Volume units ▾

Offer side: To date: 2015-01-20 📅 

After that, I can change the “from date” to also be 20th January. In case you’re doing this the next day, its easier to put, say 20th Jan to 21st Jan. Same goes for Mondays when you want to get data from Fridays trading, ie if you want data for Friday 23rd Jan, but you’re downloading it on Monday 26th Jan, your dates will be “to date: 26th Jan”; “from date: 23rd Jan”.

So I’ve changed “from date: 20th Jan”:


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DUKASCOPY Swiss Forex Bank & Marketplace **Historical Data Feed**

Forex ▾ 🔍 Search instrument list...

Crosses	▶	<input type="radio"/> AUD/CAD	Australian Dollar vs Canadian Dollar
Majors	▶	<input type="radio"/> AUD/CHF	Australian Dollar vs Swiss Franc
Metals	▶	<input type="radio"/> AUD/JPY	Australian Dollar vs Yen
		<input type="radio"/> AUD/NZD	Australian Dollar vs New Zealand Dollar
		<input type="radio"/> AUD/SGD	Australian Dollar vs Singapore Dollar
		<input type="radio"/> CAD/CHF	Canadian Dollar vs Swiss Franc
		<input type="radio"/> CAD/HKD	Canadian Dollar vs Hong Kong Dollar

Candlestick: 1 ▾ Minute ▾ From date: 2015-01-20 📅  Volume unit: Volume units ▾

Offer side: To date: 2015-01-20 📅



The next step is to change Candlestick to “30” from “1”:

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Forex ▾ 🔍 Search instrument list...

Crosses	▶	<input type="radio"/> AUD/CAD	Australian Dollar vs Canadian Dollar
Majors	▶	<input type="radio"/> AUD/CHF	Australian Dollar vs Swiss Franc
Metals	▶	<input type="radio"/> AUD/JPY	Australian Dollar vs Yen
		<input type="radio"/> AUD/NZD	Australian Dollar vs New Zealand Dollar
		<input type="radio"/> AUD/SGD	Australian Dollar vs Singapore Dollar
		<input type="radio"/> CAD/CHF	Canadian Dollar vs Swiss Franc
		<input type="radio"/> CAD/HKD	Canadian Dollar vs Hong Kong Dollar

Candlestick: **30** ▾ Minute ▾ From date: 2015-01-20 📅 Volume unit: Volume units ▾

Offer side: To date: 2015-01-20 📅

Now that all that is set, you can choose your desired asset. I wish to get EURUSD. By default, the website opens up in a Forex section with three different sub menus: Crosses, Majors and Metals.

Since EURUSD is a major currency, I will click on “Majors”:

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DUKASCOPY Swiss Forex Bank & Marketplace **Historical Data Feed**

Forex ▾ 🔍 Search instrument list...

Crosses	▶	<input type="radio"/> AUD/USD	Australian Dollar vs US Dollar
Majors	▶	<input type="radio"/> EUR/USD	Euro vs US Dollar
Metals	▶	<input type="radio"/> GBP/USD	Pound Sterling vs US Dollar
		<input type="radio"/> NZD/USD	New Zealand Dollar vs US Dollar
		<input type="radio"/> USD/CAD	US Dollar vs Canadian Dollar
		<input type="radio"/> USD/CHF	US Dollar vs Swiss Franc
		<input type="radio"/> USD/JPY	US Dollar vs Yen

Candlestick: 30 ▾ Minute ▾ From date: 2015-01-20 📅 Volume unit: Volume units ▾

Offer side: To date: 2015-01-20 📅

By doing that, we now only have major currencies on the Historical data feed. I will go ahead and select the EURUSD and you'll see a little red dot appear as you select it:



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DUKASCOPY Swiss Forex Bank & Marketplace **Historical Data Feed**

Forex ▾ 🔍 Search instrument list...

Crosses	▶	<input type="radio"/> AUD/USD	Australian Dollar vs US Dollar
Majors	▶	<input checked="" type="radio"/> EUR/USD	Euro vs US Dollar
Metals	▶	<input type="radio"/> GBP/USD	Pound Sterling vs US Dollar
		<input type="radio"/> NZD/USD	New Zealand Dollar vs US Dollar
		<input type="radio"/> USD/CAD	US Dollar vs Canadian Dollar
		<input type="radio"/> USD/CHF	US Dollar vs Swiss Franc
		<input type="radio"/> USD/JPY	US Dollar vs Yen

Candlestick: 30 ▾ Minute ▾ From date: 2015-01-20 📅 Volume unit: Millions ▾

Offer side: To date: 2015-01-20 📅

Now I will click on “download” and at this point the website might ask you to create an account or to login. There are a few login options: create a dukascopy login, or login through facebook etc.

Once you’ve done that, the file will start to download and you will briefly see this download bar at the bottom:

← → ↻ 🏠 www.dukascopy.com/free/candelabrum/

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DUKASCOPY Swiss Forex Bank & Marketplace **Historical Data Feed**

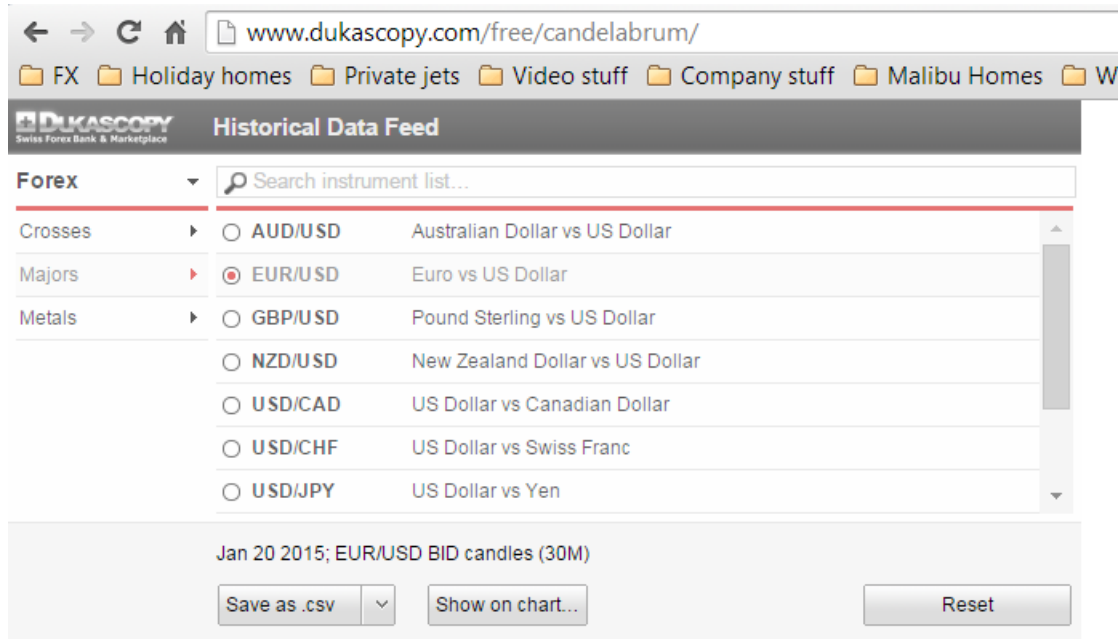
Forex ▾ 🔍 Search instrument list...

Crosses	▶	<input type="radio"/> AUD/USD	Australian Dollar vs US Dollar
Majors	▶	<input checked="" type="radio"/> EUR/USD	Euro vs US Dollar
Metals	▶	<input type="radio"/> GBP/USD	Pound Sterling vs US Dollar
		<input type="radio"/> NZD/USD	New Zealand Dollar vs US Dollar
		<input type="radio"/> USD/CAD	US Dollar vs Canadian Dollar
		<input type="radio"/> USD/CHF	US Dollar vs Swiss Franc
		<input type="radio"/> USD/JPY	US Dollar vs Yen

Jan 20 2015; EUR/USD BID candles (30M)

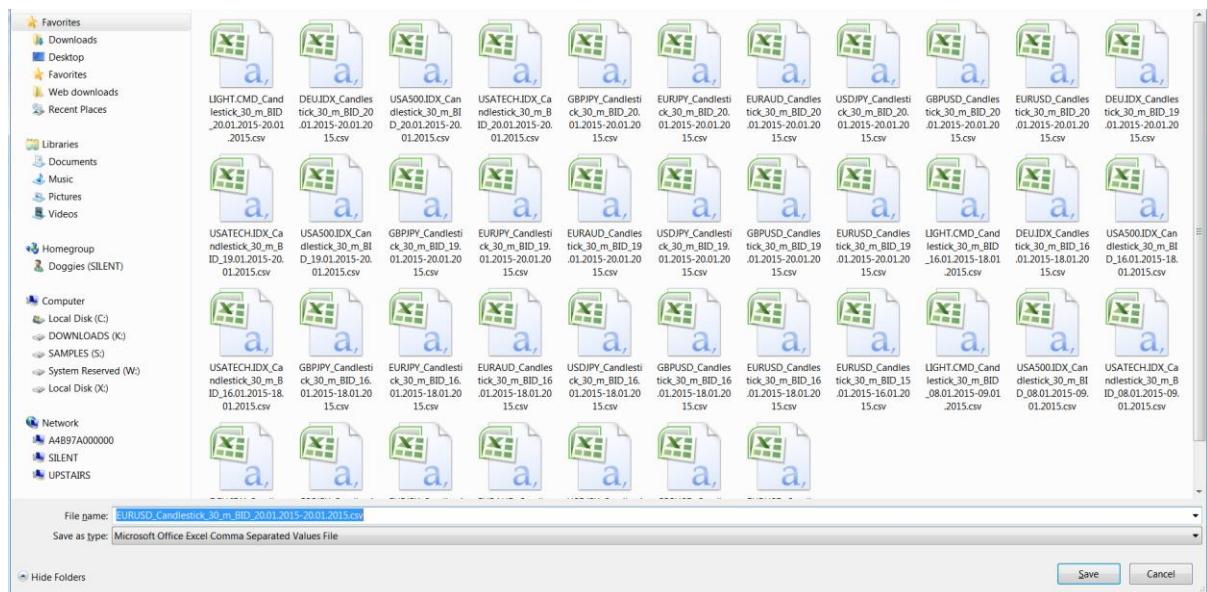


Once the download is finished, you'll get the following window:



To save the file, click on “Save as .csv” and DON’T change the name of the file. Trust me, doing this download everyday and choosing your own file names will only lead to confusion.

Make sure you put it in a folder that you can easily find on your computer. For this purpose, I will use my general Download folder on C disk:



The file you’ve just obtained should read: EURUSD_Candlestick_30_m_BID_20.01.2015-20.01.2015.csv



Make sure that it says `_30_m` rather than `_30_TICK_`. THIS IS VERY IMPORTANT.

Having checked all that, go ahead and click “save”

Now that you’ve saved your file, you might want to get another data for a different instrument. To do this, you only have to press “Reset” and you will get all your settings back, exactly as you’ve just put them few minutes ago:

← → ↻ 🏠 www.dukascopy.com/free/candelabrum/

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Historical Data Feed

Forex ▾ 🔍 Search instrument list...

Crosses	▶	<input type="radio"/> AUD/USD	Australian Dollar vs US Dollar
Majors	▶	<input checked="" type="radio"/> EUR/USD	Euro vs US Dollar
Metals	▶	<input type="radio"/> GBP/USD	Pound Sterling vs US Dollar
		<input type="radio"/> NZD/USD	New Zealand Dollar vs US Dollar
		<input type="radio"/> USD/CAD	US Dollar vs Canadian Dollar
		<input type="radio"/> USD/CHF	US Dollar vs Swiss Franc
		<input type="radio"/> USD/JPY	US Dollar vs Yen

Jan 20 2015; EUR/USD BID candles (30M)

Save as .csv ▾ Show on chart... Reset

So lets go ahead and download data for S&P500. This is an index, so you will change the menu from FOREX to INDICES (CFD):



www.dukascopy.com/free/candelabrum/

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DUKASCOPY Swiss Forex Bank & Marketplace **Historical Data Feed**

Forex Search instrument list...

Forex	Australian Dollar vs US Dollar
Commodities (CFD)	Euro vs US Dollar
Indices (CFD)	Pound Sterling vs US Dollar
Stocks (CFD)	New Zealand Dollar vs US Dollar
<input type="radio"/> USD/CAD	US Dollar vs Canadian Dollar
<input type="radio"/> USD/CHF	US Dollar vs Swiss Franc
<input type="radio"/> USD/JPY	US Dollar vs Yen

Candlestick: 30 Minute From date: 2015-01-20 Volume unit: Millions

Offer side: BID ASK To date: 2015-01-20 **Download**

Similar to Forex menu, you'll get some submenus to navigate to your instrument easier, so I'll click on America and select USA500.IDX - symbol for S&P500:

www.dukascopy.com/free/candelabrum/

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DUKASCOPY Swiss Forex Bank & Marketplace **Historical Data Feed**

Indices (CFD) Search instrument list...

America	<input type="radio"/> USAMJR.IDX	USA Major Index
Asia / Pacific	<input type="radio"/> USA30.IDX	USA 30 Index
Europe	<input type="radio"/> BRA.IDX	Brasil Index
	<input type="radio"/> USATECH.IDX	USA 100 Technical Index
	<input type="radio"/> USACOM.IDX	USA Composite Index
	<input checked="" type="radio"/> USA500.IDX	USA 500 Index

Candlestick: 30 Minute From date: 2015-01-20 Volume unit: Millions

Offer side: BID ASK To date: 2015-01-20 **Download**

As you can see, all your settings are still here, 30 Minute Candlestick from 20th Jan to 20th Jan.



Go ahead and download data again and save it in the same folder as EURUSD data.

You can do this for every instrument or forex pair you trade. At the end of this file, you'll find symbols for various instruments that might be slightly harder to decipher such as crude oil or German DAX.

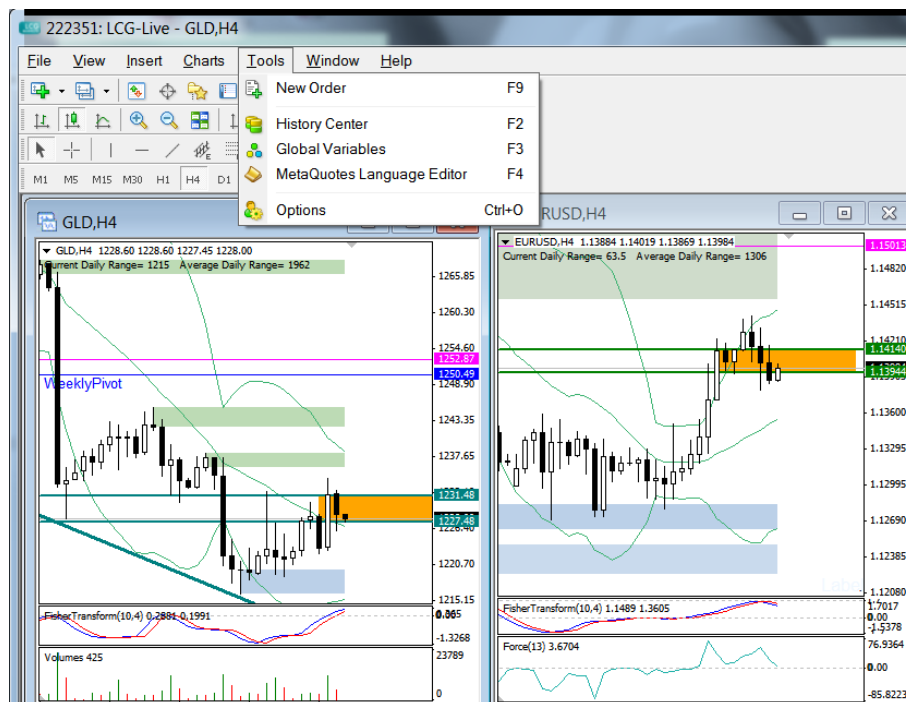
Once you've downloaded all your desired assets, you are done with the dukascopy data site.

Getting data from MT4 directly:

Recently Dukascopy site has been a big buggy, so I want to give you an option to be able to export the historical data from the actual MT4 site as well. Some people might actually find this easier, but it does require some extra time, because you have to go through quite a few clicks more to download and save the data.

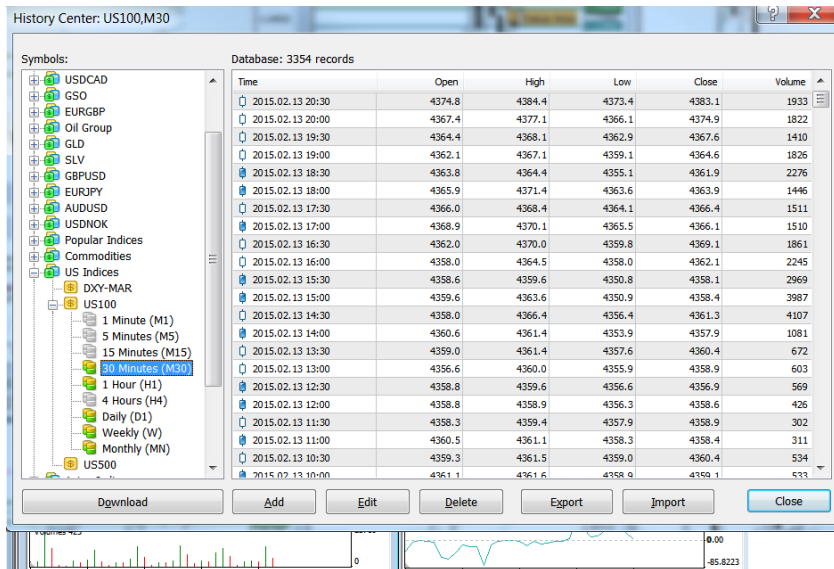
To access historical data in MT4, you have to open the History Center, located under

Tools>History Center



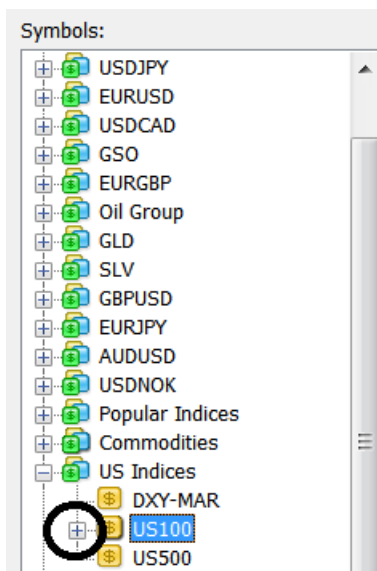


Or you can simply press F2 and the History Center will open.



Now we need to locate our desired instrument. In the above example I have Nasdaq100. The symbol is usually something like US100 or NAS100.

Once you find your desired instrument, there will be a little "+" sign next to it:





Click on it to expand the timeframe options and you'll get this:

History Center: US100,M30

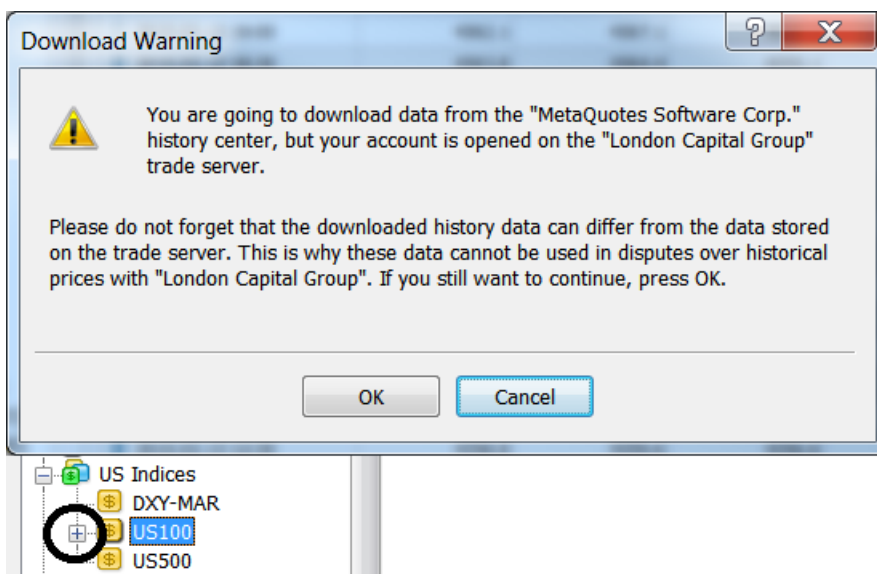
Symbols: Database: 3354 records

Time	Open	High	Low	Close	Volume
2015.02.13 20:30	4374.8	4384.4	4373.4	4383.1	1933
2015.02.13 20:00	4367.4	4377.1	4366.1	4374.9	1822
2015.02.13 19:30	4364.4	4368.1	4362.9	4367.6	1410
2015.02.13 19:00	4362.1	4367.1	4359.1	4364.6	1826
2015.02.13 18:30	4363.8	4364.4	4355.1	4361.9	2276
2015.02.13 18:00	4365.9	4371.4	4363.6	4363.9	1446
2015.02.13 17:30	4366.0	4368.4	4364.1	4366.4	1511
2015.02.13 17:00	4368.9	4370.1	4365.5	4366.1	1510
2015.02.13 16:30	4362.0	4370.0	4359.8	4369.1	1861
2015.02.13 16:00	4358.0	4364.5	4358.0	4362.1	2245
2015.02.13 15:30	4358.6	4359.6	4350.8	4358.1	2969
2015.02.13 15:00	4359.6	4363.6	4350.9	4358.4	3987
2015.02.13 14:30	4358.0	4366.4	4356.4	4361.3	4107
2015.02.13 14:00	4360.6	4361.4	4353.9	4357.9	1081
2015.02.13 13:30	4359.0	4361.4	4357.6	4360.4	672
2015.02.13 13:00	4356.6	4360.0	4355.9	4358.9	603
2015.02.13 12:30	4358.8	4359.6	4356.6	4356.9	569
2015.02.13 12:00	4358.8	4358.9	4356.3	4358.6	426
2015.02.13 11:30	4358.3	4359.4	4357.9	4358.9	302
2015.02.13 11:00	4360.5	4361.1	4358.3	4358.4	311
2015.02.13 10:30	4359.3	4361.5	4359.0	4360.4	534
2015.02.13 10:00	4361.1	4361.6	4358.9	4359.1	533

Download Add Edit Delete Export Import Close

Locate the 30 Minutes (M30) row and double click on it, even if its already highlighted yellow & green.

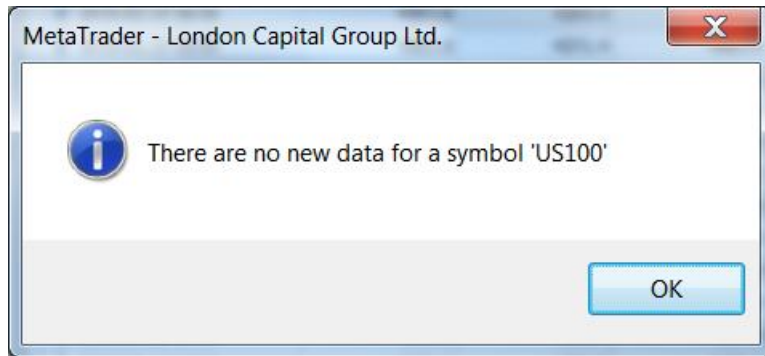
Now press download and you'll see the following dialog box:



Go ahead and press "OK"



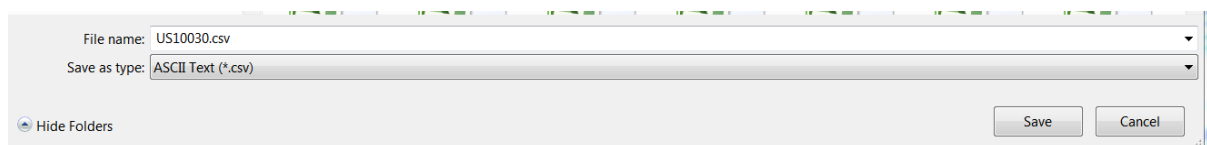
The download should be quick. After the download, you'll always get the following message:



Regardless of this message, the new data will be downloaded.

Now we need to export the 30 min data into an Excel file.

Click on “Export” and save the *.csv file somewhere where you can easily find it later. The resulting file will be named INSTRUMENTNAME30.csv so for my Nasdaq 100 data, I have US10030.csv



So that's another way to pull historical data for previous days. One slight problem with MT4-generated csv files is that each time it will download several days worth – I couldn't really find a way to only select one days worth. But this is easily sorted in Excel, by scrolling all the way down to the very end.

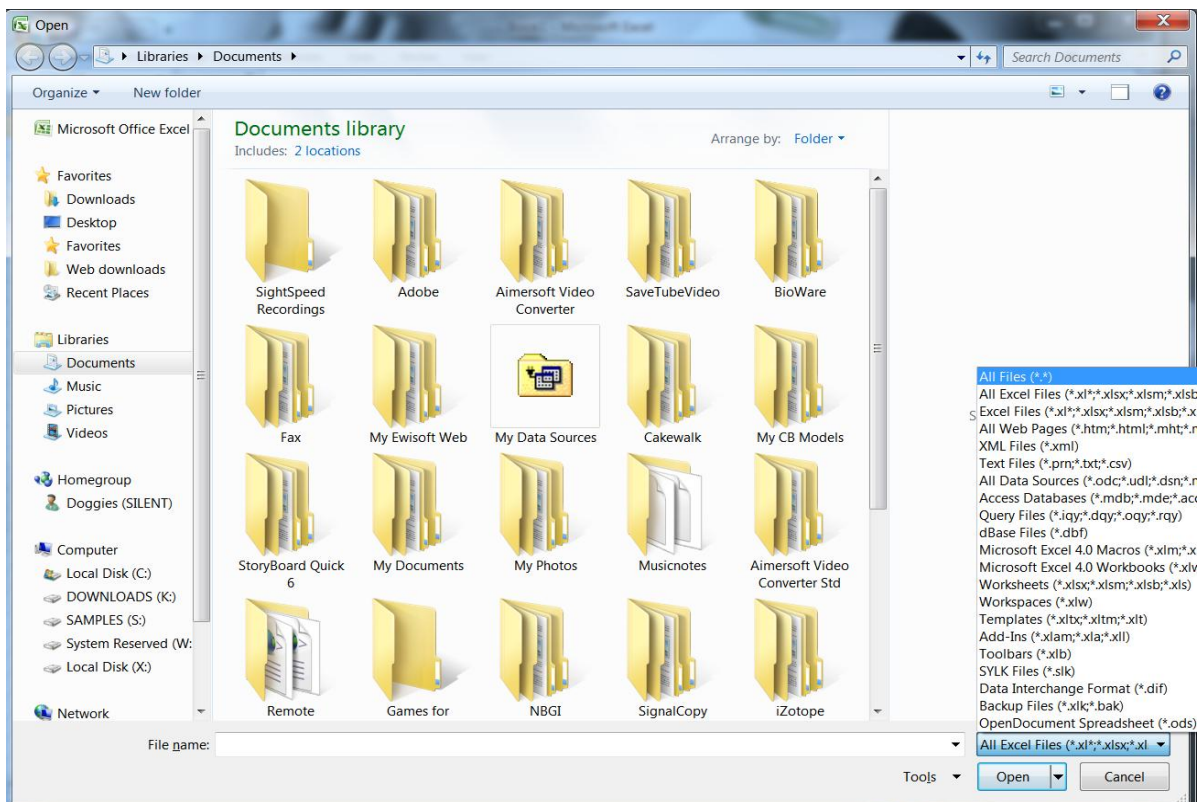


EXCEL

Now you need to open Excel.

First I will show you how to deal with Dukascopy-generated data.

Go to “open file” and make sure you change open file type to: “All files” so that it recognises *.csv extension:



Then navigate to your folder where you downloaded the data and find dukascopy-generated EURUSD_Candlestick_30_m_BID file. What you'll get is this:



Expand A column to see the times of day, like this:

EURUSD_Candlestick_30_m_BID_20.01.201							
Home Insert Page Layout Formulas Data Review View							
A1		Time					
	A	B	C	D	E	F	
1	Time	Open	High	Low	Close	Volume	
2	20.01.2015 00:00:00.000	1.15946	1.16017	1.15904	1.1591	2323.45	
3	20.01.2015 00:30:00.000	1.1591	1.15953	1.15844	1.15846	2102.56	
4	20.01.2015 01:00:00.000	1.15831	1.15854	1.15735	1.15746	3704.78	
5	20.01.2015 01:30:00.000	1.15746	1.15892	1.15725	1.15885	3106.54	
6	20.01.2015 02:00:00.000	1.15887	1.15894	1.15801	1.15877	3059.87	
7	20.01.2015 02:30:00.000	1.15877	1.1588	1.1581	1.15817	2271.71	
8	20.01.2015 03:00:00.000	1.15818	1.15855	1.15762	1.15818	1936.61	
9	20.01.2015 03:30:00.000	1.15818	1.15836	1.15778	1.15809	1187.14	
10	20.01.2015 04:00:00.000	1.15809	1.15831	1.15782	1.15808	1063.66	
11	20.01.2015 04:30:00.000	1.15806	1.15806	1.15745	1.15773	1399.15	
12	20.01.2015 05:00:00.000	1.15772	1.15804	1.15752	1.1579	1390.46	
13	20.01.2015 05:30:00.000	1.1579	1.1586	1.15767	1.1584	1655.72	
14	20.01.2015 06:00:00.000	1.1584	1.15846	1.15684	1.15764	3098.96	
15	20.01.2015 06:30:00.000	1.15764	1.15795	1.15702	1.15721	2242.57	
16	20.01.2015 07:00:00.000	1.15723	1.15855	1.15684	1.1579	4466.97	

Ok, at this point, I'd like you to open the website for market profile calculator:

<http://www.mypivots.com/investment-calculators/market-profile-calculator>

The default page looks like this:



www.mypivots.com/investment-calculators/market-profile-calculator

ay homes Private jets Video stuff Company stuff Malibu Homes Watches Dog Stuff Music Furniture Clothing 2014 Vegan recipes TST

My Pivots Forum Daily Notes Calculators Dictionary More

ES Tuesday 1:20-15 Hot Topic

Market Profile Calculator

Calculators / Market Profile Calculator

Print

Starting Letter: Tick Size: Decimal Places:

Value Area Percent:

Input Format: ☒ Decimal ☐ 32nds ☐ 32nds + halves ☐ 64ths

Delimiters: ☒ Tab ☐ Semicolon ☒ Comma ☒ Space ☐ Other

Enter Raw High/Low data here

1284.00	1280.25
1287.00	1282.00
1287.00	1284.00
1287.50	1284.00
1286.75	1283.50
1284.75	1281.00
1283.75	1281.75
1284.00	1282.50
1285.50	1282.75
1283.50	1281.00
1281.75	1279.50
1282.50	1279.75
1283.50	1280.50
1283.25	1281.50

Market Profile will be shown here

1,287.50	0
1,287.25	1
1,287.00	1
1,286.75	1
1,286.50	1
1,286.25	1
1,286.00	1
1,285.75	1
1,285.50	1
1,285.25	1
1,285.00	1
1,284.75	1
1,284.50	1
1,284.25	1
1,284.00	1
1,283.75	1
1,283.50	1
1,283.25	1
1,283.00	1

But obviously we'll need to change some settings to match each instrument, as closely as we can.

So back to Excel. The times of trading I am interested in, is Wall St at 14:30 to half hour before close at 20:30. Dukascopy tracks the data in London time.

Scroll down in Excel to locate this time. Once you find it, you'll only need column C and D.

So I will now select row 31 – 43, columns C and D, like this:



EURUSD_Candlestick_30_m_BID_20.01.2015-20.01.2015.csv - Microsoft Excel

Home Insert Page Layout Formulas Data Review View

C31 1.15918

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
13	20.01.2015 05:30:00.000	1.1579	1.1586	1.15767	1.1584	1655.72								
14	20.01.2015 06:00:00.000	1.1584	1.15846	1.15684	1.15764	3098.96								
15	20.01.2015 06:30:00.000	1.15764	1.15795	1.15702	1.15721	2242.57								
16	20.01.2015 07:00:00.000	1.15723	1.15855	1.15684	1.1579	4466.97								
17	20.01.2015 07:30:00.000	1.15792	1.15929	1.1575	1.15908	4717.11								
18	20.01.2015 08:00:00.000	1.15906	1.15927	1.15752	1.15865	4673.09								
19	20.01.2015 08:30:00.000	1.15864	1.15891	1.1572	1.15891	5310.35								
20	20.01.2015 09:00:00.000	1.1589	1.15913	1.1577	1.15859	5318.58								
21	20.01.2015 09:30:00.000	1.1586	1.1609	1.15855	1.16048	5280.6								
22	20.01.2015 10:00:00.000	1.16048	1.1615	1.15868	1.16058	5715.16								
23	20.01.2015 10:30:00.000	1.16058	1.16145	1.16025	1.16061	4003.91								
24	20.01.2015 11:00:00.000	1.1606	1.16063	1.15878	1.15913	4248.21								
25	20.01.2015 11:30:00.000	1.15913	1.15913	1.15693	1.1582	5085.78								
26	20.01.2015 12:00:00.000	1.15822	1.15926	1.15744	1.15883	3382.41								
27	20.01.2015 12:30:00.000	1.15884	1.15942	1.15836	1.15907	2978.46								
28	20.01.2015 13:00:00.000	1.15905	1.15965	1.15774	1.15923	5287.2								
29	20.01.2015 13:30:00.000	1.15923	1.16054	1.15879	1.16042	4415.88								
30	20.01.2015 14:00:00.000	1.1604	1.1604	1.1584	1.15854	4104.91								
31	20.01.2015 14:30:00.000	1.15852	1.15918	1.15782	1.1585	5546.58								
32	20.01.2015 15:00:00.000	1.1585	1.159	1.1572	1.15754	5244.57								
33	20.01.2015 15:30:00.000	1.15753	1.15896	1.15707	1.15733	5463.38								
34	20.01.2015 16:00:00.000	1.15734	1.15843	1.15583	1.15636	6008.1								
35	20.01.2015 16:30:00.000	1.15638	1.15714	1.15551	1.15583	4232.08								
36	20.01.2015 17:00:00.000	1.15584	1.15678	1.15544	1.15631	3038								
37	20.01.2015 17:30:00.000	1.15631	1.15631	1.15439	1.15475	4018.59								
38	20.01.2015 18:00:00.000	1.15474	1.15509	1.15412	1.15485	2608.02								
39	20.01.2015 18:30:00.000	1.15485	1.15557	1.15455	1.15517	1952.26								
40	20.01.2015 19:00:00.000	1.15517	1.15528	1.15435	1.15437	2159.32								
41	20.01.2015 19:30:00.000	1.15439	1.15538	1.15405	1.15504	2344.96								
42	20.01.2015 20:00:00.000	1.15505	1.1551	1.15462	1.15465	1605.62								
43	20.01.2015 20:30:00.000	1.15465	1.15529	1.15462	1.15509	1621.18								
44	20.01.2015 21:00:00.000	1.15509	1.15572	1.15501	1.15524	1999.73								
45	20.01.2015 21:30:00.000	1.15526	1.15541	1.15483	1.15483	1541.41								
46														
47														
48														

EURUSD_Candlestick_30_m_BID_20.

Ready Average: 1.156041538 Count: 26 Sum: 30.05708 100%

To copy data onto clipboard, press CTRL-C

Now go to the market profile calculator website to enter the data.

Settings for EURUSD-type currencies is:

Starting letter: A

Tick size: 0.0001

Decimal places: 5

The rest of the settings should be left in place as they are.



Now click into Raw High/Low data entry field.

Press CTRL-A to select all the old data then press CTRL-P to paste your EURUSD values.

Now you should have something like this:

Market Profile Calculator

[Calculators](#) / Market Profile Calculator

 Print

Starting Letter: Tick Size: Decimal Places: [Generate](#)

Value Area Percent:

Input Format: ☒ Decimal ☐ 32nds ☐ 32nds + halves ☐ 64ths

Delimiters: ☒ Tab ☐ Semicolon ☒ Comma ☒ Space ☐ Other

Enter Raw High/Low data here

```
1.15918 1.15782
1.159 1.1572
1.15896 1.15707
1.15843 1.15583
1.15714 1.15551
1.15678 1.15544
1.15631 1.15439
1.15509 1.15412
1.15557 1.15455
1.15528 1.15435
1.15538 1.15405
1.1551 1.15462
1.15529 1.15462
```

You're ready to press "generate" button

Scroll down the website page until you reach the end of the market profile and there you will see three little rows that say:

VAH = 1.15755

POC = 1.15505

VAL = 1.15425

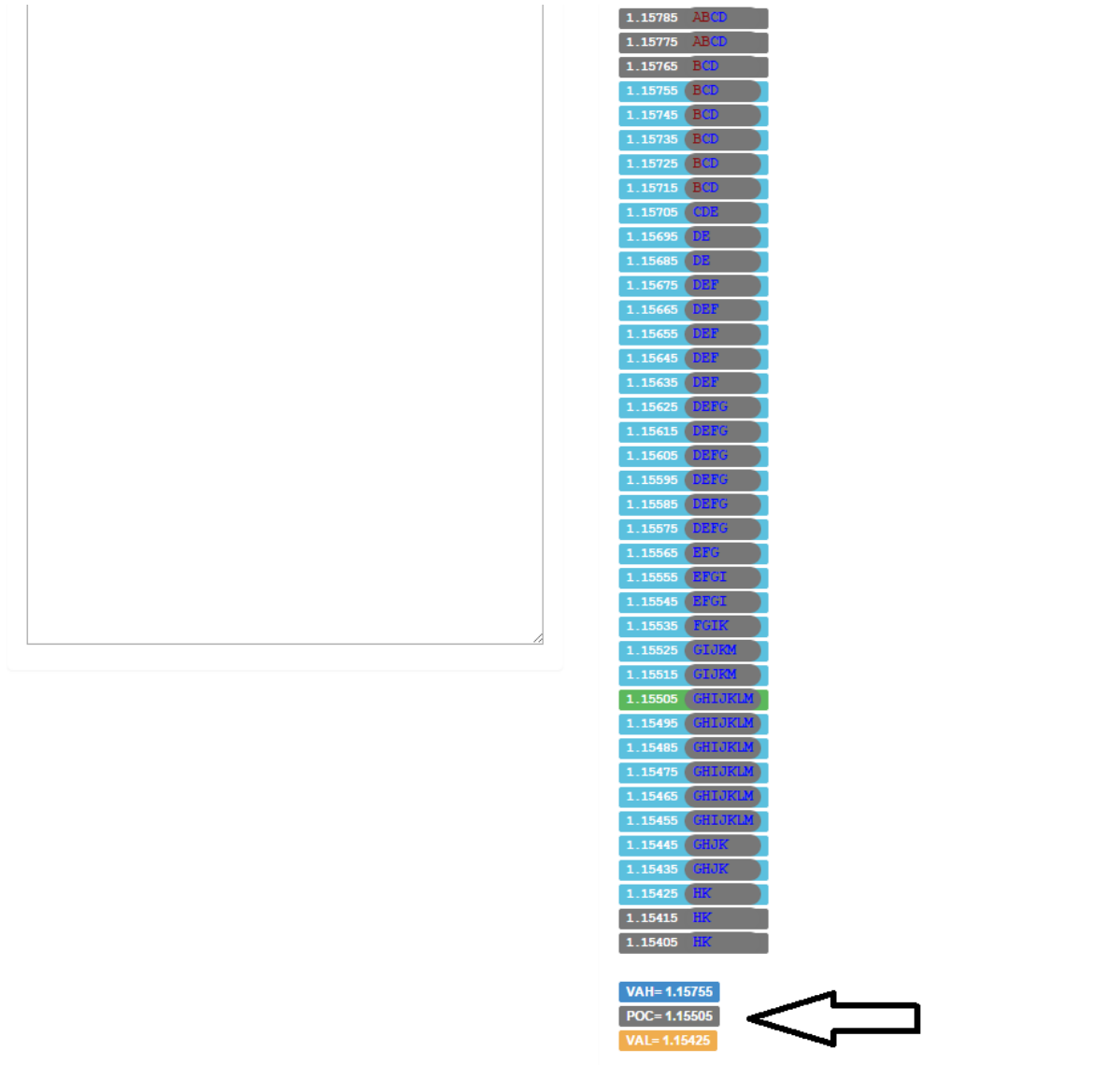
These stand for:



VAH = Value Area High

POC = Point of control, aka perceived fair value for the day

VAL = Value Area Low



Now that you have these values, go ahead to your MT4 charts or any other platform you might be using and draw a line for VAH and VAL and if you wish POC – although I rarely find use for these, since they represent the most traded price on the day. Point of Control is the point where the market profile has the most number of TPOS. But let's not get too much into that now.

In case you want to calculate values for other assets, here is the table for the settings for MP calculator website:

Indices (S&P500, NASDAQ100, DAX, DOW, FTSE):




Starting letter: A

Tick size: 1

Decimal places: 0

In case there was a huge move on indices, on occasion MP calc will tell you that the profile is more than 650 ticks wide and the free version only includes up to 650 ticks. A hack around this is to change the format of the price slightly, so for example, DAX can be quite wide and I change the price format by adding a dot to make it look like it has two decimal points. In the table below, I've changed the left column this way, and changed the settings to reflect this:

 Print

Starting Letter Tick Size: Decimal Places:

Value Area Percent:

Input Format: ☒ Decimal ☐ 32nds ☐ 32nds + halves ☐ 64ths

Delimiters: ☒ Tab ☐ Semicolon ☒ Comma ☒ Space ☐ Other

Enter Raw High/Low data here

1027.35	102095
1027.18	102230
1026.23	102100
1025.60	102210
1025.90	102220
1024.82	102290
1026.00	102375
1026.65	102353
1027.15	102570
1027.10	102551
1028.90	102596
1029.10	102781
1028.73	102663

Notice the settings change for tick size and decimal places

Once you've done this, you'll get VAH and VAL, but in a different decimal format, so all you need to do is disregard the dot and the last decimal when drawing the VA zone on the chart.

However on most days this hack isn't necessary.

Settings for EURUSD related currencies (GBPUSD, AUDUSD, EURAUD, USDCHF, USDCAD etc, anything with 5 decimal points for price):



Starting letter: A

Tick size: 0.0001

Decimal places: 5

Settings for Yen related pairs (EURJPY, USDJPY, GBPJPY, AUDJPY etc, any pair with 3 decimal points for price):

Starting letter: A

Tick size: 0.010

Decimal places: 3

Settings for WTI Crude Oil:

Starting letter: A

Tick size 0.10

Decimal places: 2

While I'm on the topic of Crude oil, one thing to mention about instruments that are traded on a different exchange to Wall St. These will have a slightly different start than Forex and Indices.

WTI Crude Oil and Brent crude trade on NYMEX, which opens at 2pm London.

Market Profile time to select in Excel for NYMEX traded instruments is

14:00 – 20:30

Similar thing with gold, it opens at 13:30, so your MP will start at 13:30 and end at 20:30

You can find these details at the end of this pdf, as well as on the main website in "Market Profile stuff" section.



USING MT4-generated CSV files in EXCEL:

The difference between Dukascopy and MT4 data is that with Dukascopy you only get one 24-hour day is 30 minute chunks. With MT4, there's no way to only export one day, so when you open the CSV file, you'll get all the data from previous few days. For MP, we only need the previous days' data, so scroll all the way to the bottom to find the last trading day data. In my case, that's 13th February:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
3323	2015.02.13	05:00	4349	4350.9	4349	4350.6	192							
3324	2015.02.13	05:30	4350.3	4351	4350	4350.3	158							
3325	2015.02.13	06:00	4350.5	4354.4	4350	4352.9	186							
3326	2015.02.13	06:30	4353	4354.3	4351.3	4351.5	177							
3327	2015.02.13	07:00	4351.4	4352	4348.3	4351.3	309							
3328	2015.02.13	07:30	4351.1	4352.8	4348.9	4351.8	339							
3329	2015.02.13	08:00	4352	4355.9	4349.9	4353.3	1126							
3330	2015.02.13	08:30	4353.5	4360	4353.4	4359.9	868							
3331	2015.02.13	09:00	4359.8	4364.6	4358.9	4360.3	843							
3332	2015.02.13	09:30	4360.1	4362.9	4358.3	4361	647							
3333	2015.02.13	10:00	4361.1	4361.6	4358.9	4359.1	533							
3334	2015.02.13	10:30	4359.3	4361.5	4359	4360.4	534							
3335	2015.02.13	11:00	4360.5	4361.1	4358.3	4358.4	311							
3336	2015.02.13	11:30	4358.3	4359.4	4357.9	4358.9	302							
3337	2015.02.13	12:00	4358.8	4358.9	4356.3	4358.6	426							
3338	2015.02.13	12:30	4358.8	4359.6	4356.6	4356.9	569							
3339	2015.02.13	13:00	4356.6	4360	4355.9	4358.9	603							
3340	2015.02.13	13:30	4359	4361.4	4357.6	4360.4	672							
3341	2015.02.13	14:00	4360.6	4361.4	4353.9	4357.9	1081							
3342	2015.02.13	14:30	4358	4366.4	4356.4	4361.3	4107							
3343	2015.02.13	15:00	4359.6	4363.6	4350.9	4358.4	3987							
3344	2015.02.13	15:30	4358.6	4359.6	4350.8	4358.1	2969							
3345	2015.02.13	16:00	4358	4364.5	4358	4362.1	2245							
3346	2015.02.13	16:30	4362	4370	4359.8	4369.1	1861							
3347	2015.02.13	17:00	4368.9	4370.1	4365.5	4366.1	1510							
3348	2015.02.13	17:30	4366	4368.4	4364.1	4366.4	1511							
3349	2015.02.13	18:00	4365.9	4371.4	4363.6	4363.9	1446							
3350	2015.02.13	18:30	4363.8	4364.4	4355.1	4361.9	2276							
3351	2015.02.13	19:00	4362.1	4367.1	4359.1	4364.6	1826							
3352	2015.02.13	19:30	4364.4	4368.1	4362.9	4367.6	1410							
3353	2015.02.13	20:00	4367.4	4377.1	4366.1	4374.9	1822							
3354	2015.02.13	20:30	4374.8	4384.4	4373.4	4383.1	1933							
3355														
3356														
3357														

The columns are slightly different as well, with Column B representing time. Easier to see than Dukascopy, but there are no names for the columns but we know that prices in historical data are always displayed as: open/high/low/close



So we're going to need columns D and E for our High & Low Market Profile calculations to copy into MP calculator. You'll need to select the correct prices within correct time, just like on Dukascopy-generated csv file. Since this is Nasdaq, I need 14:30 to 20:30, here it is:

US10030.csv - Microsoft Excel								
Home Insert Page Layout Formulas Data Review View								
D3342		4366.4						
	A	B	C	D	E	F	G	H
3323	2015.02.13	05:00	4349	4350.9	4349	4350.6	192	
3324	2015.02.13	05:30	4350.3	4351	4350	4350.3	158	
3325	2015.02.13	06:00	4350.5	4354.4	4350	4352.9	186	
3326	2015.02.13	06:30	4353	4354.3	4351.3	4351.5	177	
3327	2015.02.13	07:00	4351.4	4352	4348.3	4351.3	309	
3328	2015.02.13	07:30	4351.1	4352.8	4348.9	4351.8	339	
3329	2015.02.13	08:00	4352	4355.9	4349.9	4353.3	1126	
3330	2015.02.13	08:30	4353.5	4360	4353.4	4359.9	868	
3331	2015.02.13	09:00	4359.8	4364.6	4358.9	4360.3	843	
3332	2015.02.13	09:30	4360.1	4362.9	4358.3	4361	647	
3333	2015.02.13	10:00	4361.1	4361.6	4358.9	4359.1	533	
3334	2015.02.13	10:30	4359.3	4361.5	4359	4360.4	534	
3335	2015.02.13	11:00	4360.5	4361.1	4358.3	4358.4	311	
3336	2015.02.13	11:30	4358.3	4359.4	4357.9	4358.9	302	
3337	2015.02.13	12:00	4358.8	4358.9	4356.3	4358.6	426	
3338	2015.02.13	12:30	4358.8	4359.6	4356.6	4356.9	569	
3339	2015.02.13	13:00	4356.6	4360	4355.9	4358.9	603	
3340	2015.02.13	13:30	4359	4361.4	4357.6	4360.4	672	
3341	2015.02.13	14:00	4360.6	4361.4	4353.9	4357.9	1081	
3342	2015.02.13	14:30	4358	4366.4	4356.4	4361.3	4107	
3343	2015.02.13	15:00	4359.6	4363.6	4350.9	4358.4	3987	
3344	2015.02.13	15:30	4358.6	4359.6	4350.8	4358.1	2969	
3345	2015.02.13	16:00	4358	4364.5	4358	4362.1	2245	
3346	2015.02.13	16:30	4362	4370	4359.8	4369.1	1861	
3347	2015.02.13	17:00	4368.9	4370.1	4365.5	4366.1	1510	
3348	2015.02.13	17:30	4366	4368.4	4364.1	4366.4	1511	
3349	2015.02.13	18:00	4365.9	4371.4	4363.6	4363.9	1446	
3350	2015.02.13	18:30	4363.8	4364.4	4355.1	4361.9	2276	
3351	2015.02.13	19:00	4362.1	4367.1	4359.1	4364.6	1826	
3352	2015.02.13	19:30	4364.4	4368.1	4362.9	4367.6	1410	
3353	2015.02.13	20:00	4367.4	4377.1	4366.1	4374.9	1822	
3354	2015.02.13	20:30	4374.8	4384.4	4373.4	4383.1	1933	
3355								

Ctrl-C to copy the values, then go to Market profile calculator website and Ctrl-V into the field, with the correct settings for the tick size and decimal places, tick size 1, decimal 0.

And finally please find the alias symbols for CFDs on dukascopy website:



Instrument name	Dukascopy Alias
S&P500	USA500.IDX
NASDAQ100	USATECH.IDX
GERMAN DAX	DEU.IDX
EUROSTOXX	EUS.IDX
FTSE100	GBR.IDX
WTI Crude Oil	LIGHT.CMD
Brent Oil	BRENT.CMD
GOLD (In Forex section, under Metals)	XAU/USD
SILVER (In Forex section, under Metals)	XAG/USD

MP Calculator settings for various pairs and assets:

Instrument name	Tick size	Decimal Places
EURUSD	0.0001	5
GBPUSD	0.0001	5
AUDUSD	0.0001	5
EURAUD	0.0001	5
USDJPY	0.010	3
GBPJPY	0.010	3
EURJPY	0.010	3
AUDJPY	0.010	3
XAUUSD (Gold)	0.10	2
WTI Crude Oil	0.10	2
S&P500	1	0
German DAX (no hack)	1	0
German DAX (decimal hack)	0.10	2
NASDAQ100	1	0

Market profile start-end hours for various pairs and assets:

14:30 – 20:30 (Wall St)	14:00 – 20:30 (NYMEX)	13:30 – 20:30 (COMEX)
All forex pairs	WTI Crude Oil	XAU/USD (gold)
S&P500	Brent Crude	XAG/USD (silver)
NASDAQ100		
German DAX		
FTSE100		
DOW JONES		

Dukascopy Historical data:

<http://www.dukascopy.com/free/candelabrum/>



Market Profile Online Calculator:

<http://www.mypivots.com/investment-calculators/market-profile-calculator>