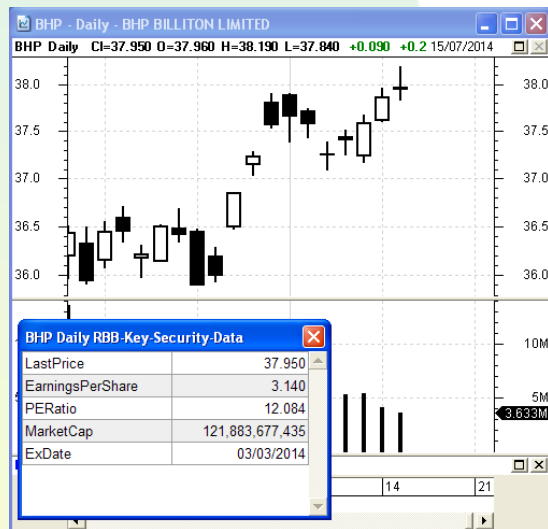# BullCharts

Innovative Australian charting and technical analysis system
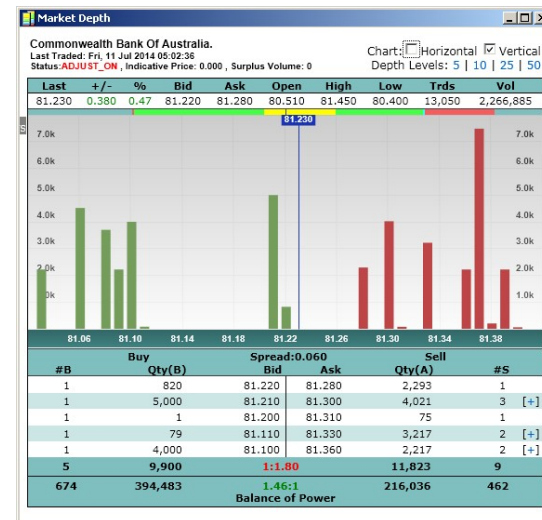
version 4

New features and
Major enhancements

July 2014

This version
updated:
29 July 2014

BullCharts — about

What is it?

- Innovative charting and technical analysis system.

- Feature-rich and powerful set of tools.

- End-of-day or optional intraday live charts.

- Comprehensive range of built-in indicators and scans for your convenience.

- Portfolio to track your trades.

- Access to latest news and market reports.

BullCharts

Distinguishing features:

- Australian product with good local support.
- First released in 2004
- Mature and stable product
- User requests for enhancement are welcome
- Specialise in Australian equities price/volume data (stored on your PC); and can display global indexes and shares
- Author strategies built-in
- Built-in help information.

BullCharts

Why?

- Access to the latest strategies from local and overseas authors in analysing the dynamics of the stock market.

- Carefully designed to remain intuitive, easy to use and clear in presentation.

- Crisp charts on screen and in print.

Version 4 features

More than 40 new features and enhancements:

A) Watchlist enhancements

B) Dynamic Market Depth bar charts

C) Alerts on price and volume

D) BullScan enhancements

E) New and updated chart indicators

F) BullScript enhancements

G) Many more tweaks and improvements

A) Watchlist enhancements

- Coloured watchlist entries (in earlier version)
- Now use new hot-key to apply colour
- Sort on the "Comment" field
- NewsWatch
- Detailed watchlist

5 Day Price Increase by More Than 10% (Rejects)- Ne...

Wednesday, 28 May 2014

Date	Code	Headline
28/05/2014	ALL	Presentation to Analysts and Investors
28/05/2014	ALL	2014 Interim Dividend
28/05/2014	ALL	2014 Half Year Media Release
28/05/2014	ALL	2014 Half Year Results Announcement
28/05/2014	ALZ	Proposal from Stockland Group
28/05/2014	ALZ	SGP: Increased and Final Proposal to Acquire Australand
28/05/2014	CGF	Change in substantial holding in CDI
28/05/2014	DLS	AQO: Directors Intention Statement
28/05/2014	DLS	Drillsearch Agrees to Acquire Ambassador Oil and Gas
28/05/2014	DLS	Recommended Takeover of Ambassador by Drillsearch
28/05/2014	DOW	Becoming a substantial holder
28/05/2014	EGP	Queen's Wharf Brisbane - Short List
28/05/2014	ILU	Chairman's Address to Shareholders

today's favs

Code		Last	%Mv	BuyPrice	QuanAsk	SellPrice	QuanBid	High	Low	Volume	Status	TradedTime
BHP	▲	37.580	0.454	37.510	250	37.590	266	37.660	37.180	5,459,665	ADJUST_ON	17:02:35
CBA	▲	81.230	0.470	81.110	2,293	81.280	79	81.450	80.400	2,266,885	ADJUST_ON	17:02:36
STO	▼	14.000	-0.498	14.000	577	14.090	5,859	14.100	13.930	1,974,273	ADJUST_ON	17:02:42
TLS	▲	5.330	0.756	5.330	110,658	5.340	36,577	5.350	5.290	18,384,069	ADJUST_ON	17:02:41

Watchlist enhancements

Coloured watchlist entries (in earlier version)

- Can apply colour to a watchlist entry.
- Six colours to choose from.
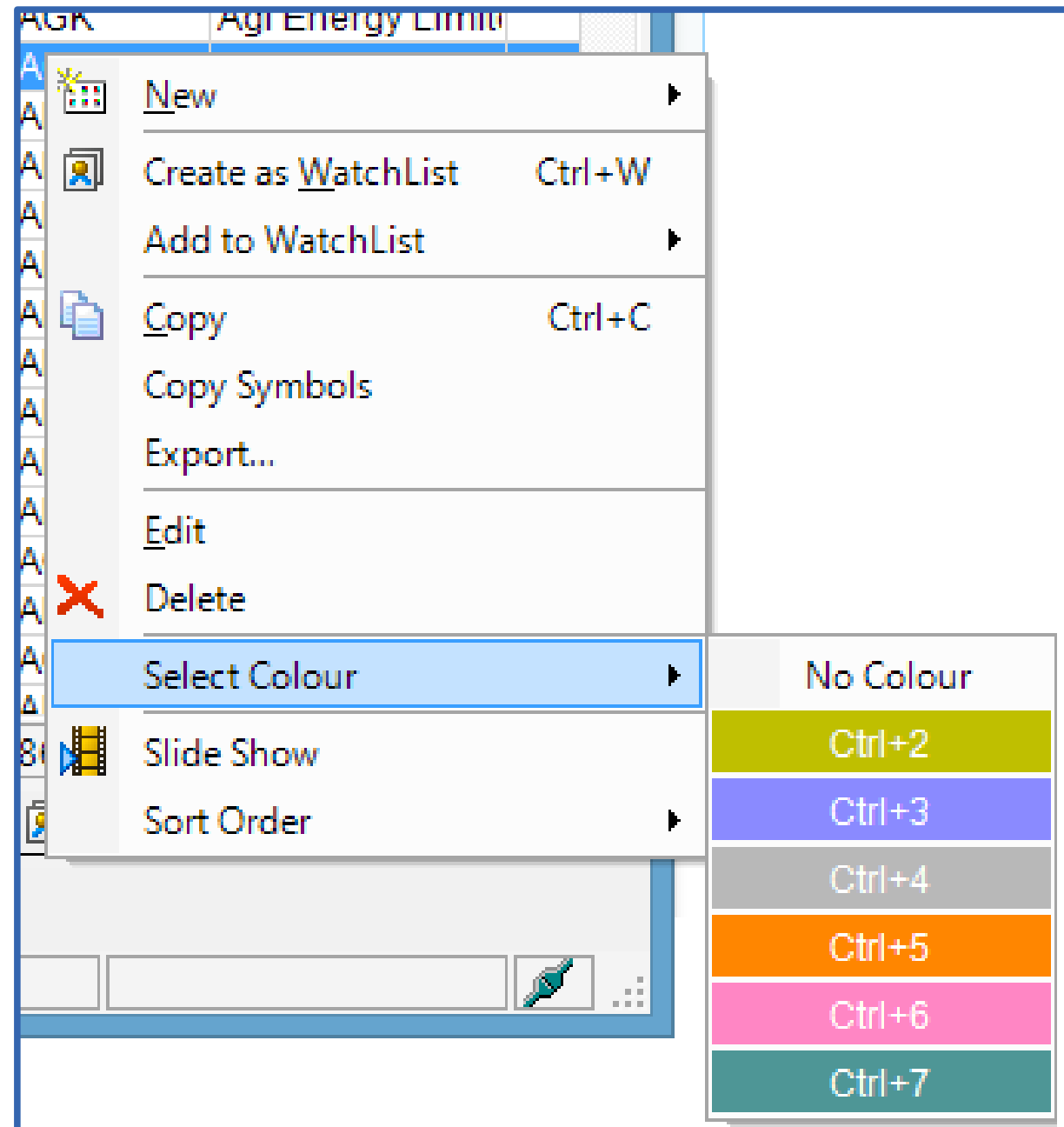- Can change the default colours.

Watchlist — Hot-key for colours

To apply a colour to
a watchlist entry:-

- Right-click on the
  entry, and choose
  "Select Colour",
  then click on the
  colour;
  OR

- Use the hot-key:
  <Ctrl> key plus a
  number key.

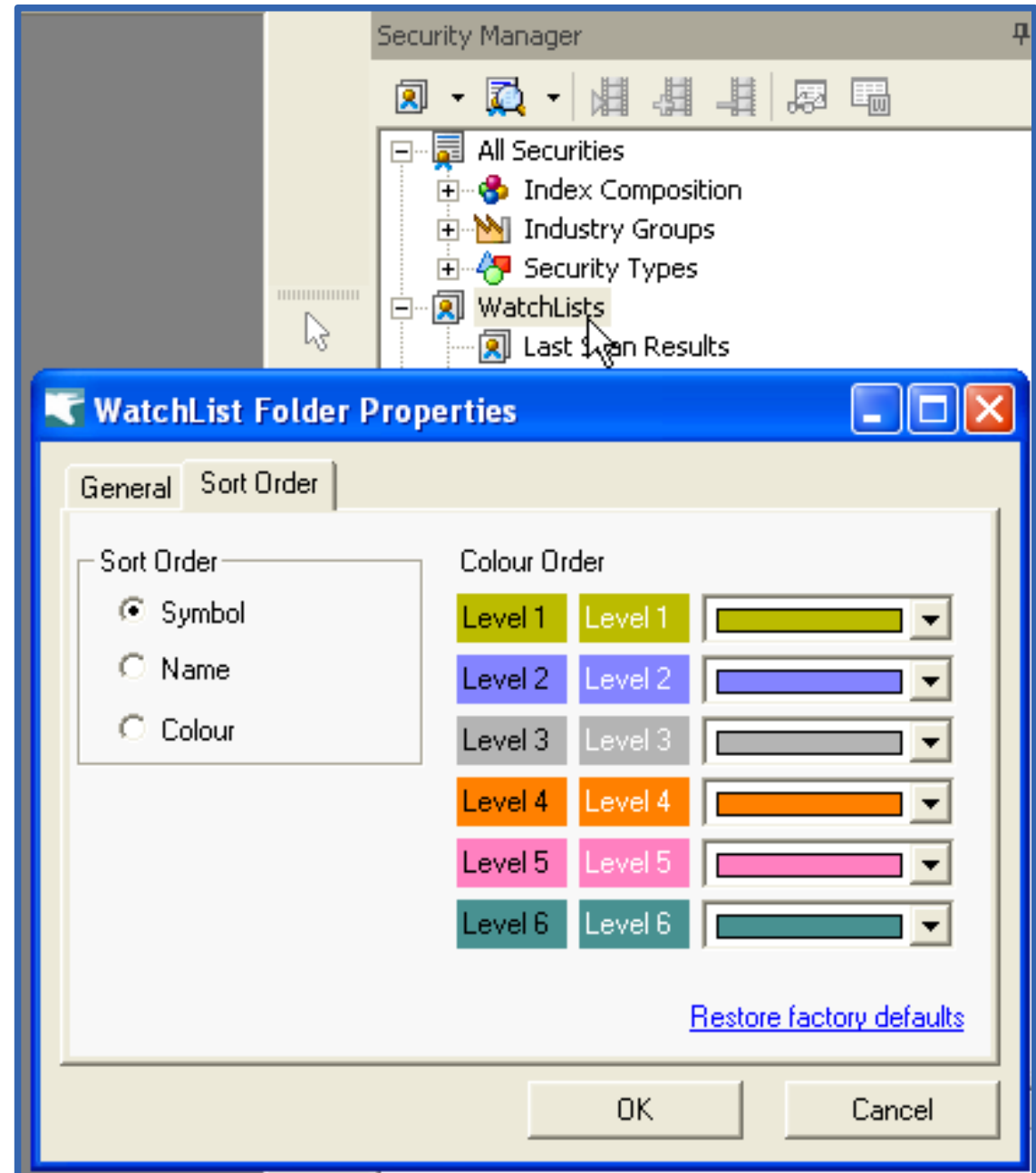# Watchlist — Default colours

By the way: To change the default colours:

- Right click on "Watchlists" item
- Choose "Properties"
- Select "Sort Order" tab.

Watchlist — Comment field

Watchlists include a "Comment" field (in earlier version).

Now sort a watchlist by the Comment column. Either:

- Click on column header; OR

- Right-click > Sort Order > Sort by...

NewsWatch

View recent news for all stocks in a watchlist

📠 5 Day Price Increase by More Than 10% (Rejects)- Ne...	⬕ ⬛ ✖	

Wednesday, 28 May 2014

28/05/2014	ALL	Presentation to Analysts and Investors
28/05/2014	ALL	2014 Interim Dividend
28/05/2014	ALL	2014 Half Year Media Release
28/05/2014	ALL	2014 Half Year Results Announcement
28/05/2014	ALZ	Proposal from Stockland Group
28/05/2014	ALZ	SGP: Increased and Final Proposal to Acquire Australand
28/05/2014	CGF	Change in substantial holding in CDI
28/05/2014	DLS	AQO: Directors Intention Statement
28/05/2014	DLS	Drillsearch Agrees to Acquire Ambassador Oil and Gas
28/05/2014	DLS	Recommended Takeover of Ambassador by Drillsearch
28/05/2014	DOW	Becoming a substantial holder
28/05/2014	EGP	Queen's Wharf Brisbane - Short List
28/05/2014	ILU	Chairman's Address to Shareholders
28/05/2014	ILU	Mineral Sands Market Update

Tuesday, 27 May 2014

27/05/2014	AGK	APPENDIX 3Y - JEREMY MAYCOCK

Detailed watchlist (EOD)

Code		Last	%Mv	BuyPrice	QuanAsk	SellPrice	QuanBid	High	Low	Volume	Status	TradedTime
ACR	▲	1.520	31.602	0.000	0	0.000	0	1.520	1.180	6,721,536	EOD	18:00:00
BHP	▼	39.000	-0.154	0.000	0	0.000	0	39.040	38.830	15,102,732	EOD	18:00:00
CBA	▲	82.280	0.329	0.000	0	0.000	0	82.280	82.010	6,483,022	EOD	18:00:00
NAB	▲	34.590	0.290	0.000	0	0.000	0	34.600	34.440	6,428,303	EOD	18:00:00
TLS	▼	5.450	-0.547	0.000	0	0.000	0	5.490	5.450	27,616,761	EOD	18:00:00

For End-of-Day data users:

- Open a new window containing the stocks from a watchlist

- Sort any column (by clicking on the column heading)

- This window has customisable properties.

List

BuyPrice	QuanAsk	SellPrice	Q
0.0			
0.0			
0.0			
0.0			
0.0			

Current View ▶
Current Scheme ▶
...ply as default view

Freeze Column

✓ Flash on Changes

View NewsWatch

Export...

12

Detailed watchlist

BullCharts

Code		Last	%Mv	BuyPrice	QuanAsk	SellPrice	QuanBid	High	Low	Volume	Status	TradedTime
ACR	▲	1.570	2.951	1.565	1,551	1.575	1,034	1.590	1.500	755,628	OPEN	12:02:40
BHP	▼	39.040	-0.153	39.040	1,880	39.050	1,395	39.120	38.870	1,655,382	OPEN	12:02:40
CBA	▲	82.340	0.415	82.340	436	82.350	364	82.380	81.920	358,744	OPEN	12:02:48
NAB	▲	34.835	0.418	34.830	6,169	34.840	12,211	34.850	34.620	1,329,222	OPEN	12:02:51
TLS	▲	5.440	0.184	5.430	260,682	5.440	687,592	5.465	5.430	5,298,450	OPEN	12:02:39

My hot stocks - Detailed WatchList

For live data users:

- Open a new window containing the stocks from a watchlist, and

- The price data is continually refreshed.

- Sort any column (by clicking on the column heading)

- This window has customisable properties.

B) Market Depth

Market depth in Windows XP is unchanged

Market depth in **Windows 7 and 8** now has:

- horizontal bar chart

- vertical bar chart

- expand/collapse depth

(see samples on next screens)

Unchanged in Windows XP

CBA Market Depth Summary

○ Summary   ○ Details   ○ Depth Chart

CWLTH BANK FPO $81.230 +0.38
Last Traded: Fri, 11 Jul 2014 07:02:36 UTC
Status: ADJUST_ON, Indicative Price: N/A

Depth Levels: 5 | 10 | 25

Last	+/-	%	Bid	Ask	Open	High	Low	Trds	Vol
81.230	+0.38	+0.47	81.220	81.280	80.510	81.450	80.400	13,050	2,266,885

Buy — Spread: 0.060 — **Sell**

#B	Qty(B)	Bid	No.	Ask	Qty(A)	#S
1	820	81.220	1	81.280	2,293	1
1	5,000	81.210	2	81.300	4,021	3
1	1	81.200	3	81.310	75	1
1	79	81.110	4	81.330	3,217	2
1	4,000	81.100	5	81.360	2,217	2
5	9,900		1:1.80		11,823	9
674	394,483		1.46:1		216,036	462
Total #B	Total Qty(B)		Balance of Power		Total Qty(A)	Total #A

Last Updated: Sat Jul 12 16:14:08 UTC+1000 2014

Market Depth bar charts (W7)

Enable:
horizontal bar chart,
vertical bar chart

Market Depth

Commonwealth Bank Of Australia.
Last Traded: Fri, 11 Jul 2014 05:02:36
Status:ADJUST_ON , Indicative Price: 0.000 , Surplus Volume: 0

Chart: ☐ Horizontal ☐ Vertical
Depth Levels: 5 | 10 | 25 | 50

Last	+/-	%	Bid	Ask	Open	High	Low	Trds	Vol
81.230	0.380	0.47	81.220	81.280			80.400	13,050	2,266,885

Expand,
collapse depth

Buy		Spr		Sell		
#B	Qty(B)	Bid	Ask	Qty(A)	#S	
1	820	81.220	81.280	2,293	1	
1	5,000	81.210	81.300	4,021	3	[+]
1	1	81.200	81.310	75	1	
1	79	81.110	81.330	3,217	2	[+]
1	4,000	81.100	81.360	2,217	2	[+]
5	9,900	1:1.80		11,823	9	
674	394,483	1.46:1		216,036	462	
		Balance of Power				

Horizontal bars

Bars indicate volume at each price level

CBA Market Depth

Commonwealth Bank Of Australia.
Last Traded: Tue, 29 Jul 2014 11:27:08
Status:OPEN , Indicative Price: 0.000 , Surplus Vol: 0

Chart: ☑ Horizontal ☐ Vertical
Depth Levels: 5 | 10 | 25 | 50

Last	+/-	%	Bid	Ask	Open	High	Low	Trds	Vol
82.250	0.250	0.30	82.250	82.260	82.000	82.330	81.920	2,727	259,830

	Buy		Spread:0.010		Sell	
#B	Qty(B)	Bid	Ask	Qty(A)	#S	
[+] 12	4,087	82.250	82.260	1,225	8	[+]
[+] 8	1,340	82.240	82.270	410	4	[+]
[+] 4	561	82.230	82.280	412	5	[+]
[+] 5	275	82.220	82.290	2,405	8	[+]
1	54	82.200	82.300	1,794	5	[+]
30	6,317	1.00:1		6,246	30	
800	431,987	2.07:1		156,346	387	
		Balance of Power				

Last Updated: Tue, 29 Jul 2014 11:27:11 (AUS Eastern Standard Time)

Vertical bars

Bars indicate volume at each price level.

CBA Market Depth

Commonwealth Bank Of Australia.
Last Traded: Tue, 29 Jul 2014 11:27:42
Status: OPEN , Indicative Price: 0.000 , Surplus Vol: 0

Chart: ☑ Horizontal ☑ Vertical
Depth Levels: 5 | 10 | 25 | 50

Last	+/-	%	Bid	Ask	Open	High	Low	Trds	Vol
82.250	0.250	0.30	82.250	82.260	82.000	82.330	81.920	2,728	259,837

82.250

Last traded price

Shaded area today's high

☐ Orders

Price axis labels: 82.06 | 82.10 | 82.14 | 82.18 | 82.22 | 82.26 | 82.30 | 82.34 | 82.38 | 82.42 | 82.46

	Buy		Spread: 0.010		Sell	
#B	Qty(B)	Bid	Ask	Qty(A)	#S	
[+] 16	4,822	82.250	82.260	1,225	8	[+]
[+] 8	1,340	82.240	82.270	410	4	[+]
[+] 4	561	82.230	82.280	385	4	[+]
[+] 6	427	82.220	82.290	2,405	8	[+]
[+] 2	537	82.200	82.300	1,794	5	[+]
36	7,687	1.24:1		6,219	29	
805	432,874	2.08:1		156,924	387	
		Balance of Power				

Last Updated: Tue, 29 Jul 2014 11:27:50 (AUS Eastern Standard Time)

Indicative price — bars

During Pre-open phase (and 4pm match), the "indicative" price and the "matching" prices, are shown by yellow shading.

Last	+/-	%	Bid	Ask	Open	High	Low	Trds	Vol
0.900	0.000	0.00	0.990	0.860	0.900	0.900	0.900	0	0

0.935

Indicative Price

Orders

	Buy		Spread:-0.130		Sell	
#B	Qty(B)	Bid	Ask	Qty(A)	#S	
1	12,000	0.990	0.860	1,900	1	
[+] 2	3,630	0.970	0.920	2,175	1	
1	2,000	0.960	0.925	10,000	1	
1	3,500	0.950	0.935	25,000	1	
1	3,998	0.940	0.940	10,916	1	
1	10,000	0.930	0.955	22,900	2 [+]	
1	6,900	0.925	0.960	11,394	2 [+]	
1	2,175	0.920	0.975	6,025	1	
1	100,000	0.915	0.980	91,750	3 [+]	
[+] 2	21,000	0.910	0.990	5,376	1	
[+] 7	137,761	0.900	1.000	15.100	2 [+]	
1	20,000	0.890			6 [+]	

Indicative Depth Levels

C) Alerts (on price & volume)

**Alerts feature (in earlier version),
including sloping alert lines (eg. trend line)**

- The "Description" column can be sorted.

- Continue using BullCharts while the Alert Scan runs.

D) BullScan enhancements

The "Rejects" table now displays more data.

Right-click drop down menu has options.

Auto-export scan results

**Automatically export scan results
to CSV file
every time.**

**Use menu option:
Tools > Preferences
and
tick the box**
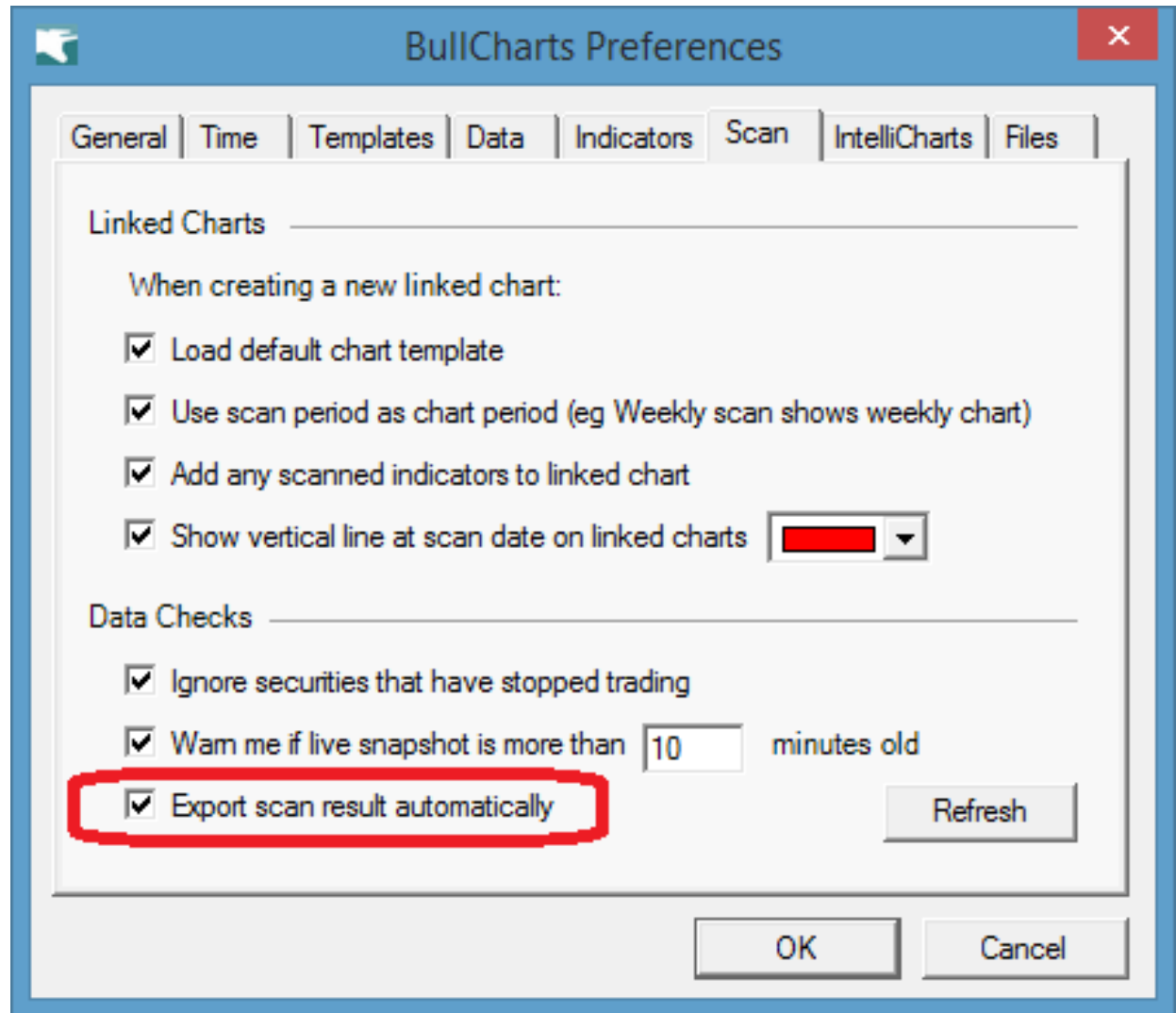
Copy "Scan Date" line

Run a scan, and on the resulting chart, copy the "Scan Date" vertical line onto another chart — will automatically place on the same date.
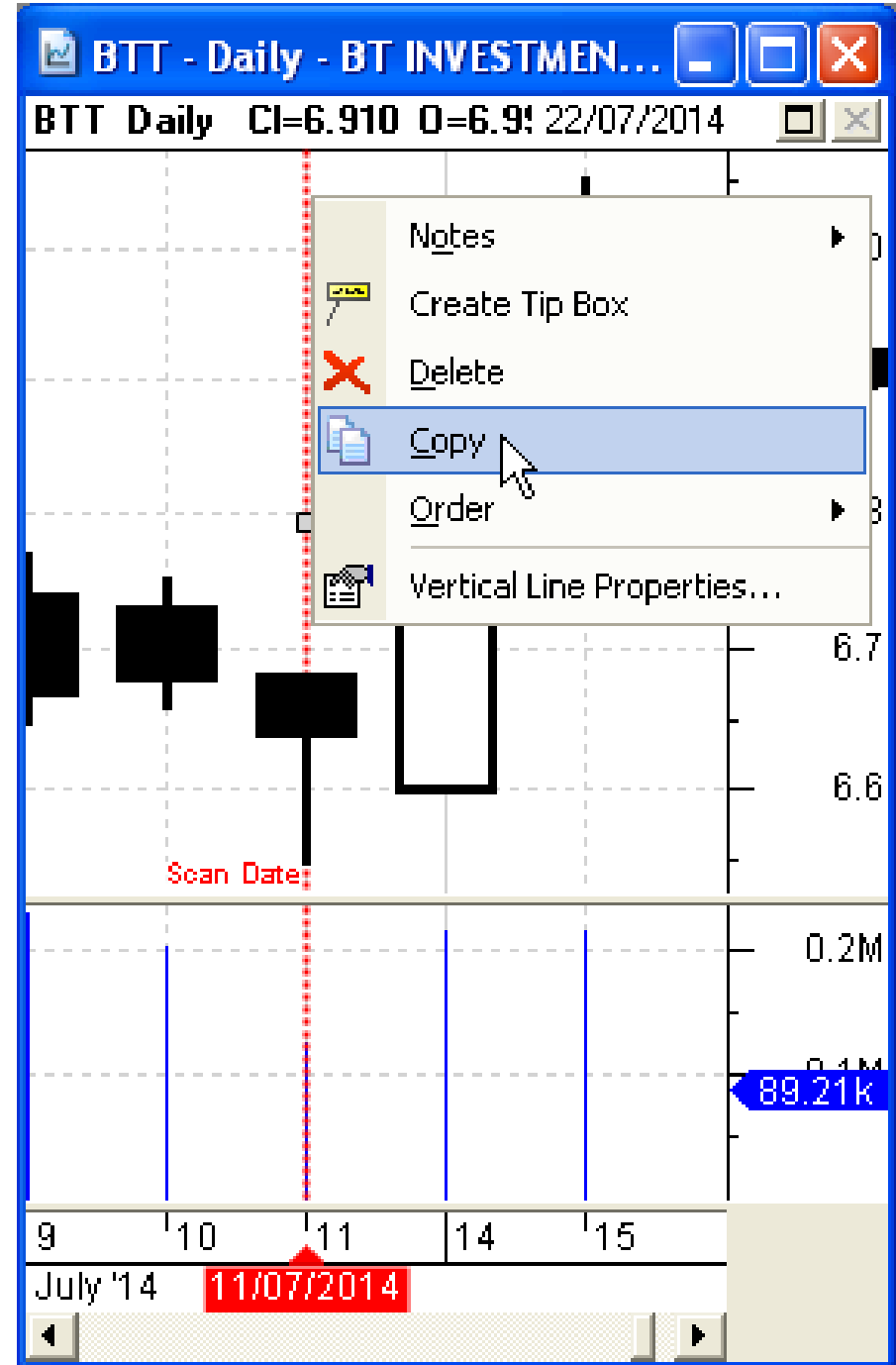
E) Indicators enhanced

New and updated chart indicators:

- Ex-Dividend Date vertical line
- Indicator ribbon pane height adjustable
- Save default settings for Markers
- Replace date in indicator using cursor date
- Heikin Ashi revisions
- Double Tops and Bottoms indicator
- Ichimoku indicator — now correct
- Fundamental data indicator.

Ex-Div date vertical line

New indicator to place a vertical line on the ex-dividend date.
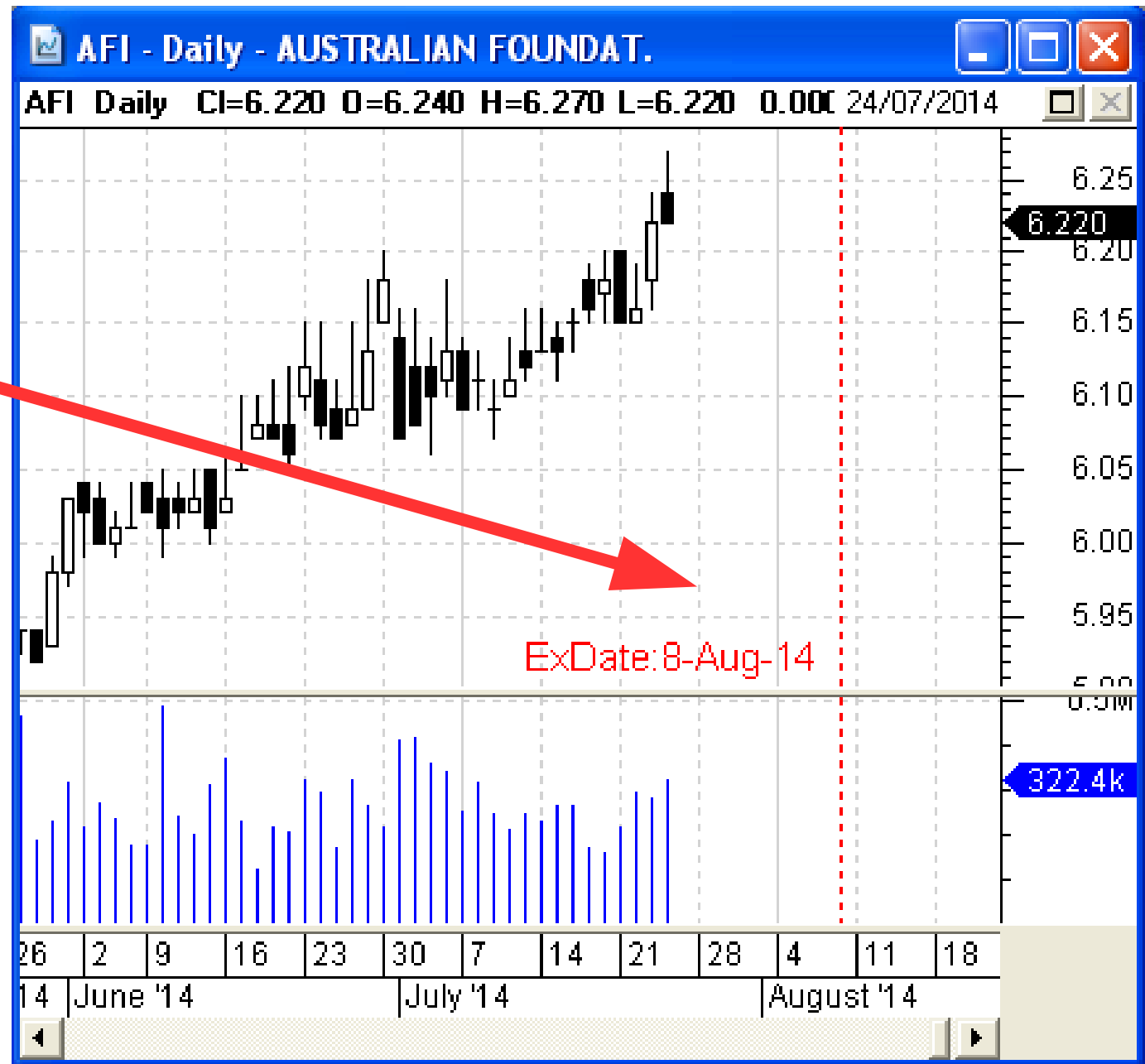
Indicator Ribbon height

Height of ribbon can be increased or decreased
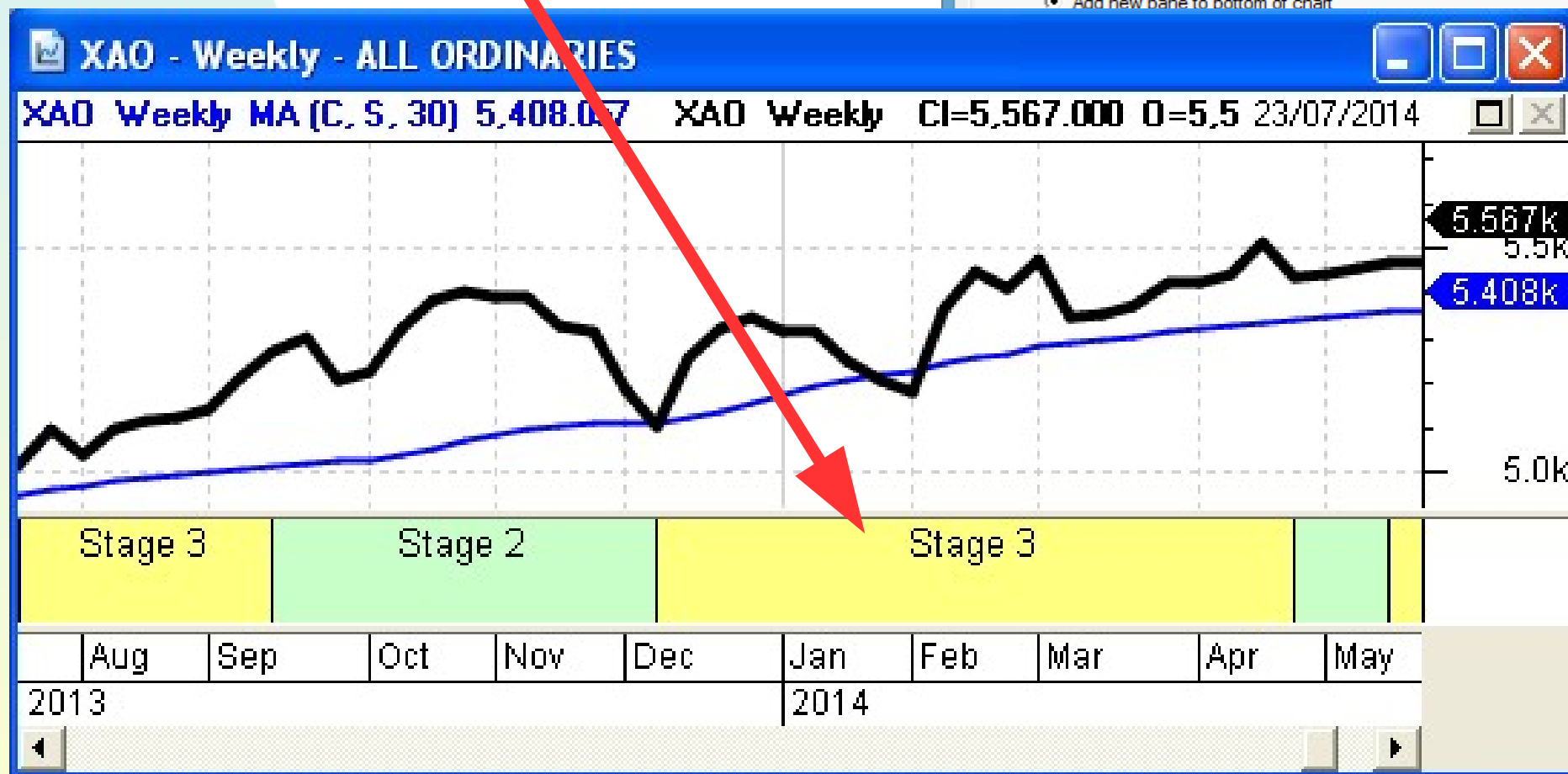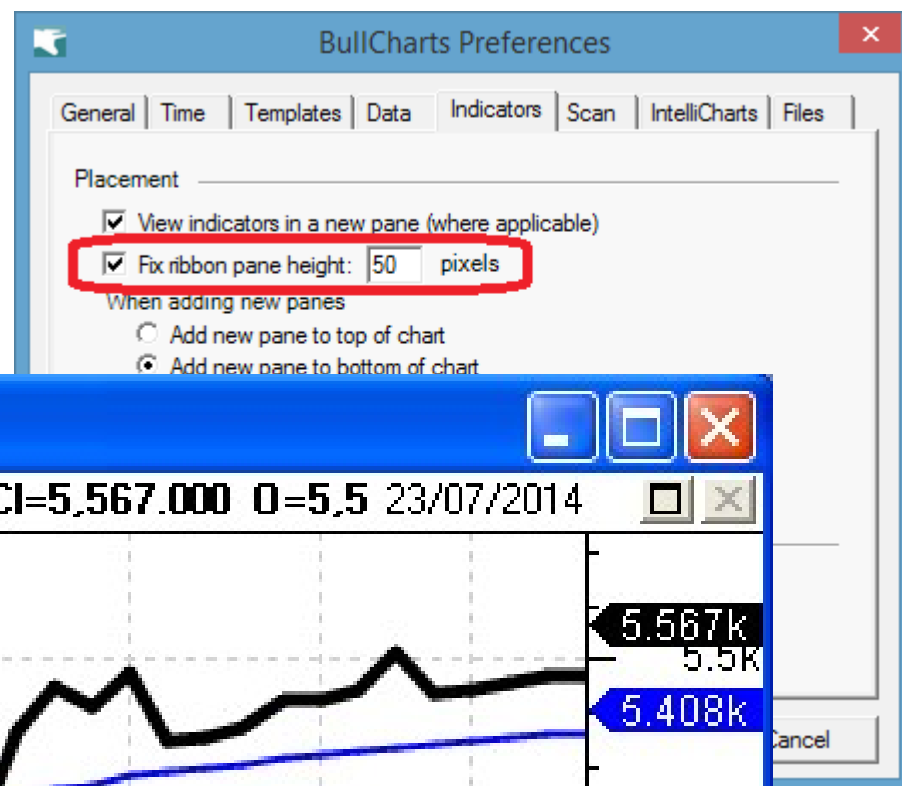
Indicator Marker — defaults

When customising the markers on indicators, can also save the changed marker features as the default settings.

eg. change marker colour, and font size/type.
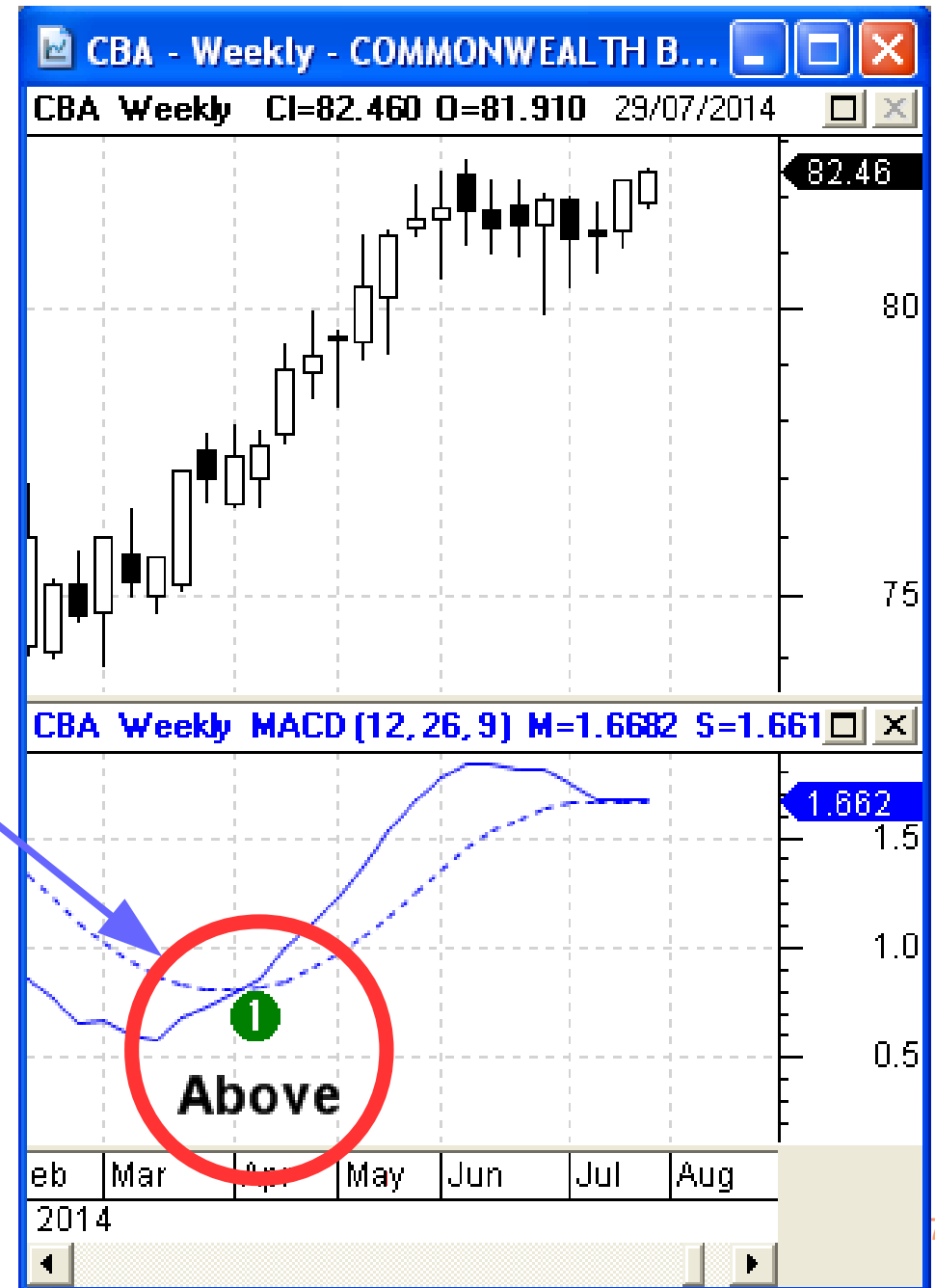
Auto-insert date...

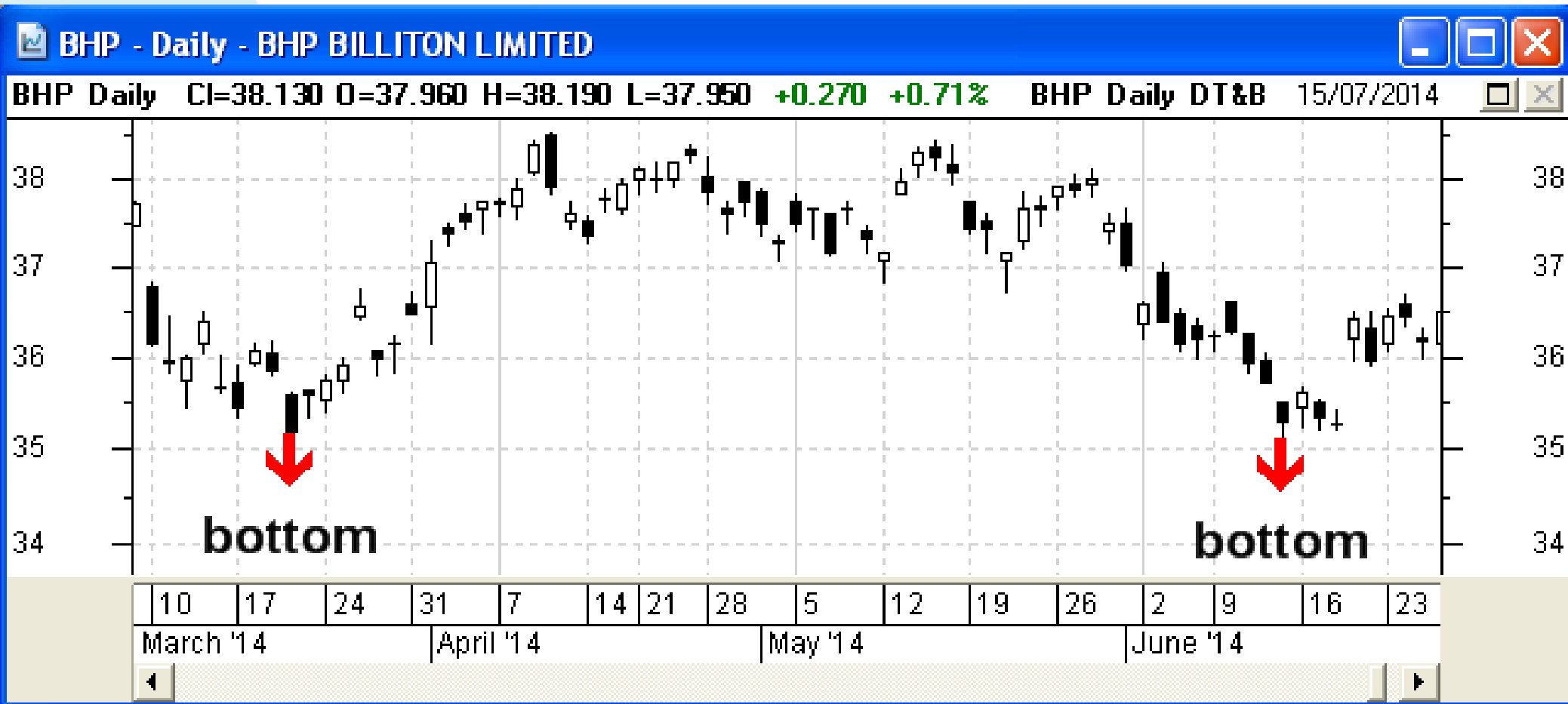## Auto-insert date in indicator using cursor date
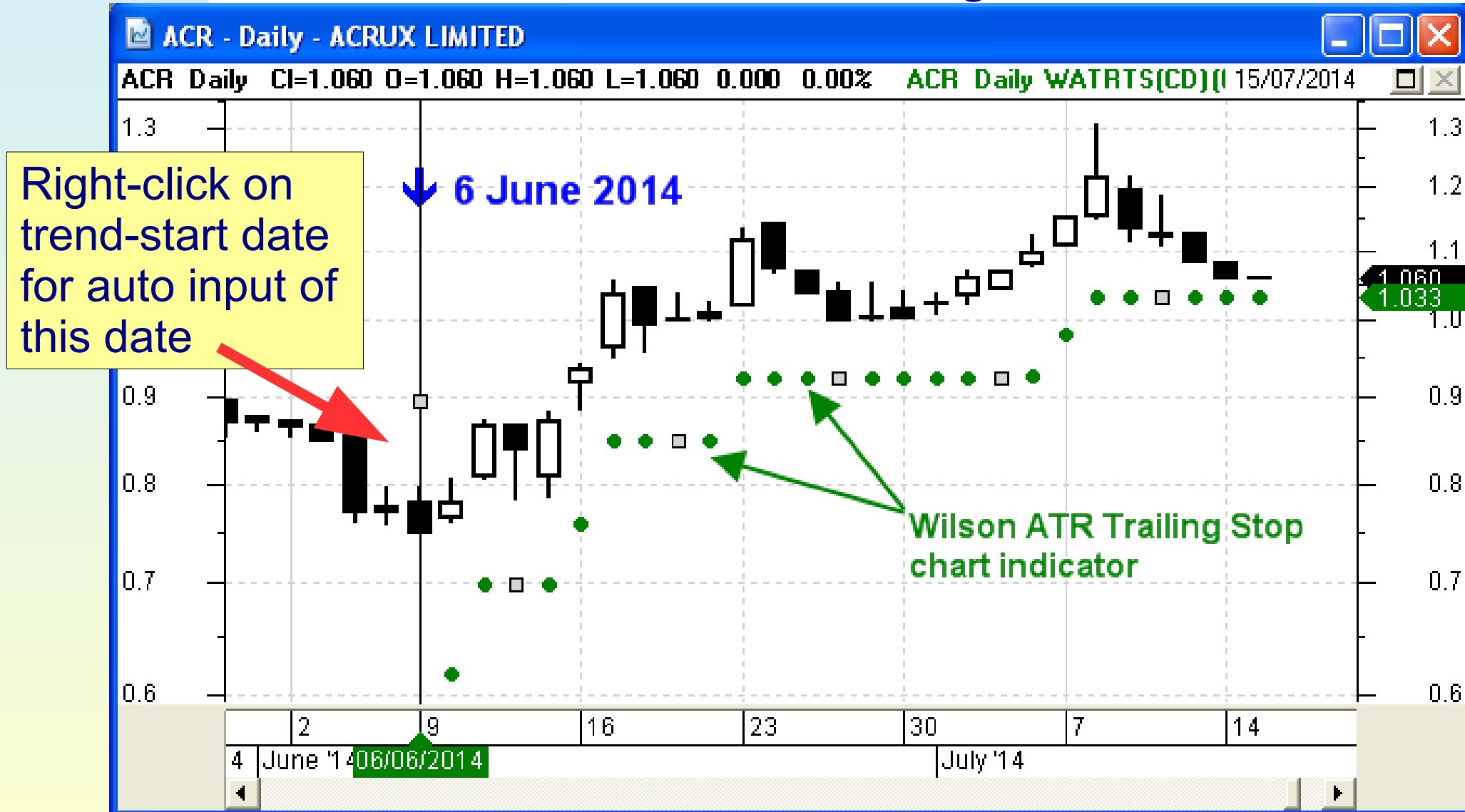
Heikin-Ashi

Heikin-Ashi candlesticks — enhanced colour codes (in script)

```
[linestyle=candle; candlemode=3;
color=black; color2=green; color3=red;]
```

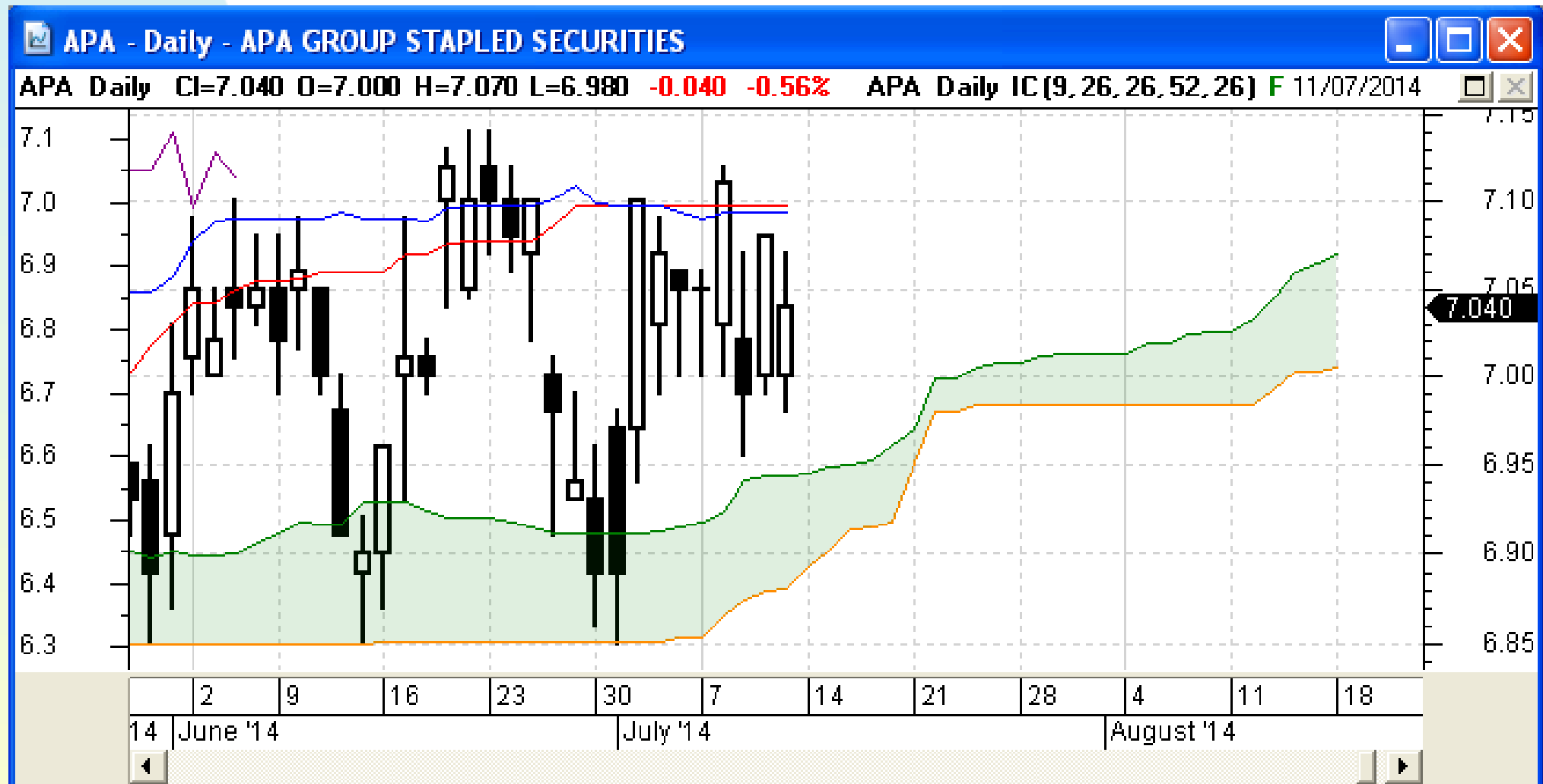(see the What's New document for details)

Chart pattern indicator

Double Top & Bottom chart patterns

Ichimoku indicator

Ichimoku indicator — displays accurate cloud

Fundamental data (indicator)

BullCharts

A list of key
fundamental data can
be displayed in a
new window.

BHP Daily Fundamental data	
LastPrice	38.085
TotalIssue	3,211,691,105
AssetBacking	16.040
NetTangibleAssets	16.040
EarningsPerShare	3.140
DividendPerShare	1.291
CurrentDividendAmount	0.647
FrankedPercent	100.000
GrossDividendAmount	1.844
AnnualDividendPerShare	1.291
MarketCap	122,317,255,734
EarningsYield	8.246
PERatio	12.127
DividendYield	3.390
DividendCover	2.433
ExDate	03/03/2014
DividendPayableDate	26/03/2014
IndustryCode	15104000
Sector	Materials
IndustryGroup	Materials

F) BullScript updates

Several enhancements:

- Candlemode linestyle — controlling candle colours
- Report window and report attribute
- Fundamental Report attributes
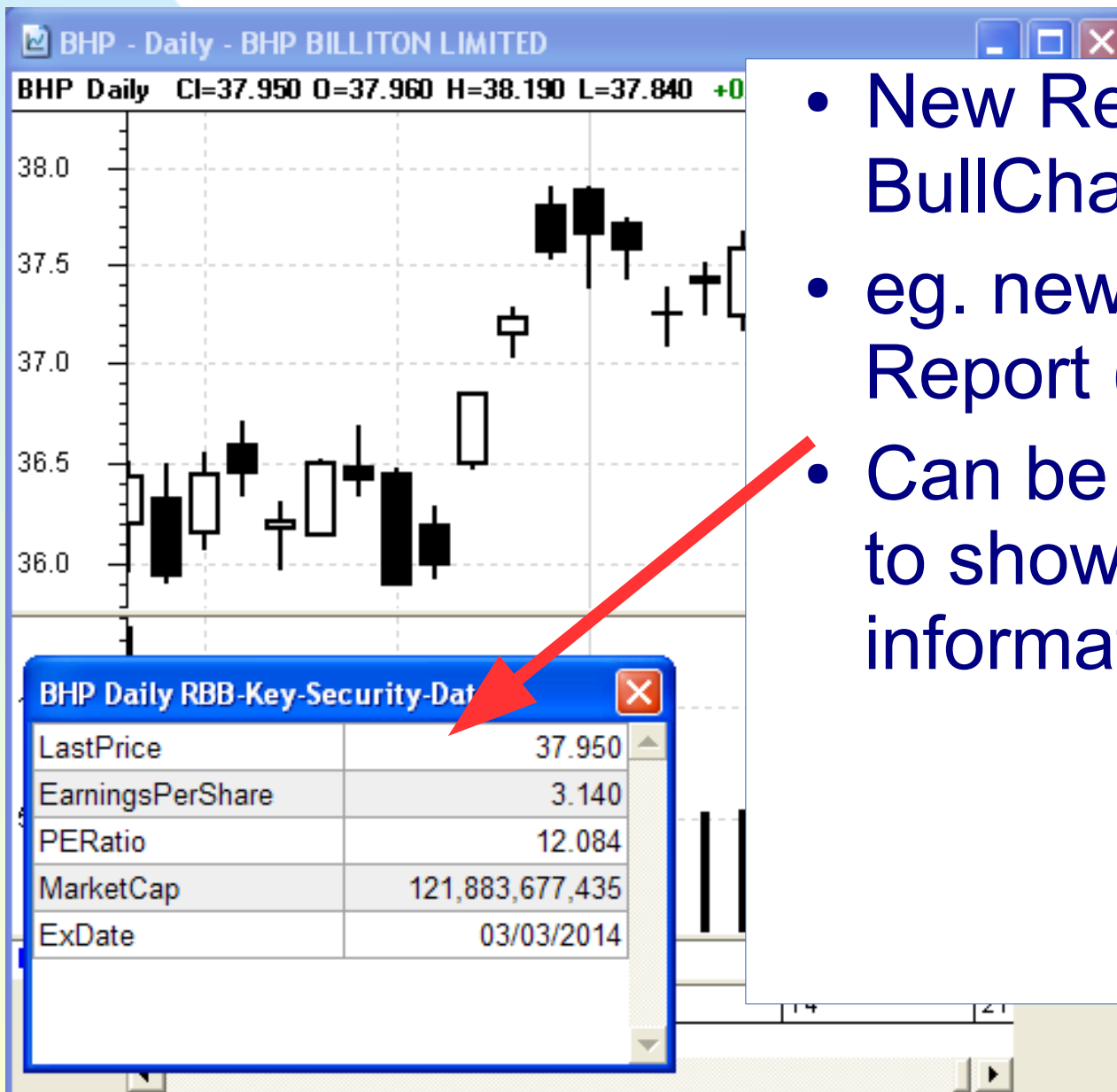- New indicator Markers in BullScript

Candlemode linestyle

Enhanced BullScript to control candle colours:

[linestyle=candle; candlemode=3;
color=black; color2=green; color3=red;]

(see the What's New document for details)

Report window...

BHP - Daily - BHP BILLITON LIMITED

BHP Daily   CI=37.950 O=37.960 H=38.190 L=37.840 +0

BHP Daily RBB-Key-Security-Dat

LastPrice	37.950
EarningsPerShare	3.140
PERatio	12.084
MarketCap	121,883,677,435
ExDate	03/03/2014

- New Report window and BullCharts *attribute*
- eg. new Fundamental Report (indicator)
- Can be easily customised to show key security information.

Fundamental Report

The new Fundamental Report contains new items for referencing data for each *security*.

Simply delete unwanted lines.

It's *attributes* are explained (see the What's New doc).

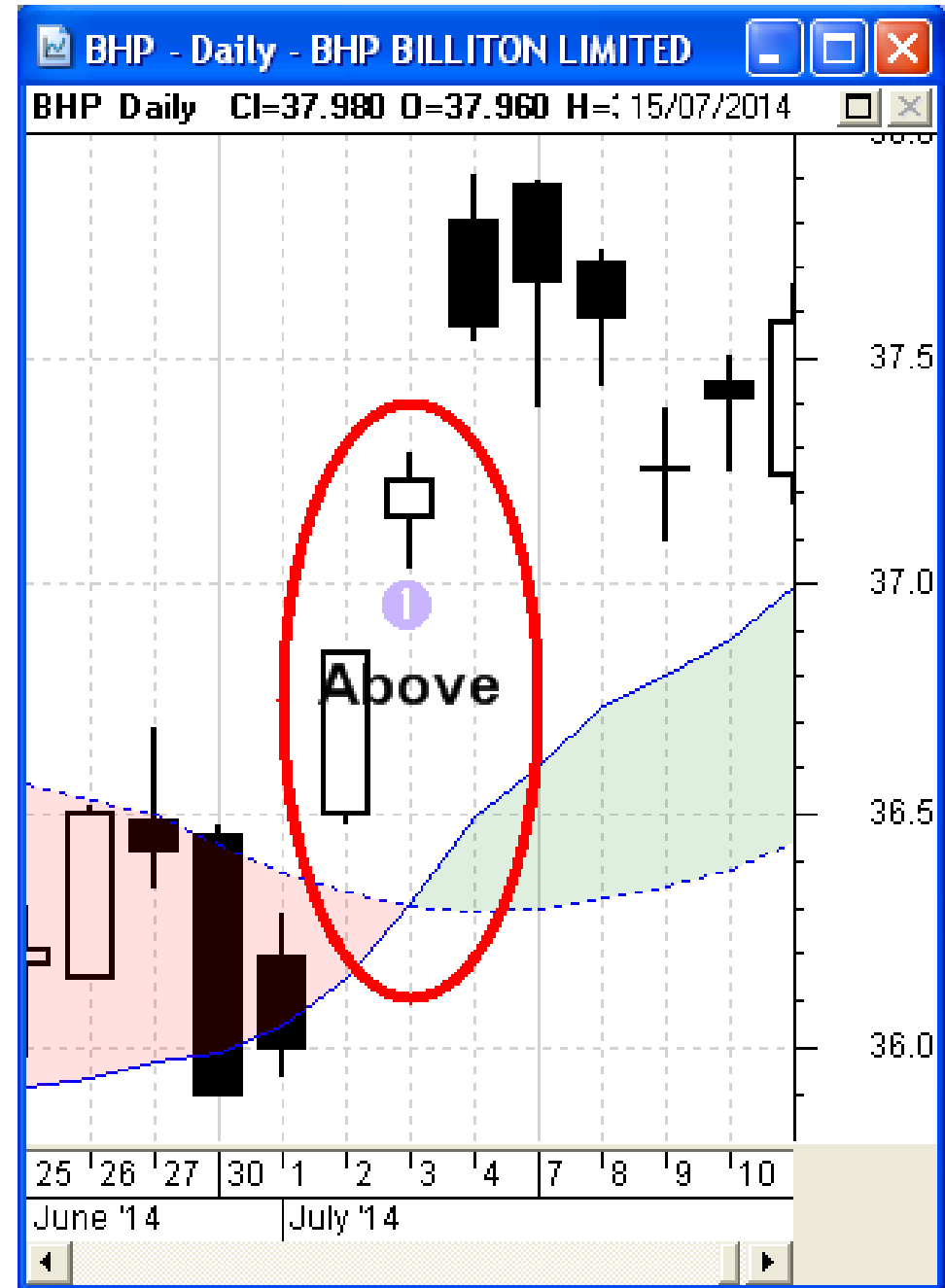**BullScript
The new Fundamental Data report**

```
[name=LastPrice]
c;


[report="<<name>>";reportcontent
s="
<<LastPrice>>
<<security.TotalIssue>>
<<security.AssetBacking>>
...
...
<<security.IndustryGroup>>
<<security.SectorIndex>>
;
"]
```

New Indicator Markers

- Indicator Markers can be used from BullScript.

- Now access all 29 "icons" from the icon palette with reference to their "type" number

  (see What's New doc for details)

G) Miscellaneous

There are also many small enhancements that could not be included here.

SUMMARY

BullCharts software:

- Has been developed over many years.
- Version 4 has more than 40 new features and enhancements.

Further details:

www.bullcharts.com.au