



Stocks and Stock Indices in APAC – Where are They Going?

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Material To Be Covered

- A brief review of APAC x Japan price and volume movements over the past 5 years
- Why is volume generally ignored as an indicator of stock activity
- Classical and Generalized Analytical Techniques
- Applying these to stocks and stock indices to improve insight
- Where are stocks and stock indices going in APAC x Japan?

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Volume

- After thought with the financial press
- Mixed reception by stock analysts
 - Limited use by fundamentalists
 - Recognized by technicians and contrarians and used to measure the worth of a market move
 - Assigning a significance to the volume traded is subjective
- No current tools effectively combine volume and price into one numeric measure

Classical and Generalized Analytical Techniques

- Classical
 - Moving Averages
 - Momentum
- Generalized
 - Generalized momentum
 - Energy in the market
 - Generalized Energy in the market

Classical Techniques

- Moving Averages
 - Smoothing of prices over a specified period (days, weeks, months, years)
 - Crossing of Moving Averages
 - Gold and Death Crosses (signaling potential entrance and exit points)
 - Roughness
 - The number of times the averages cross is an indication of volatility

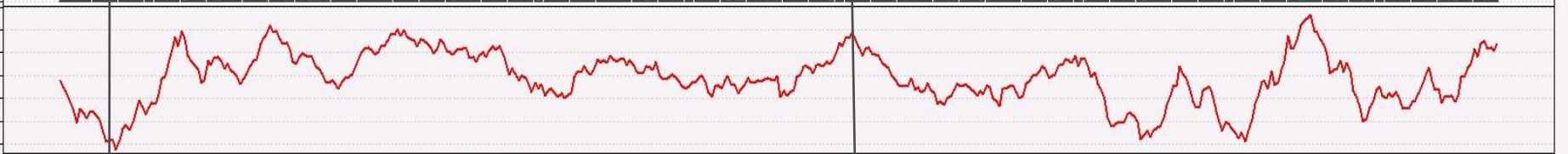
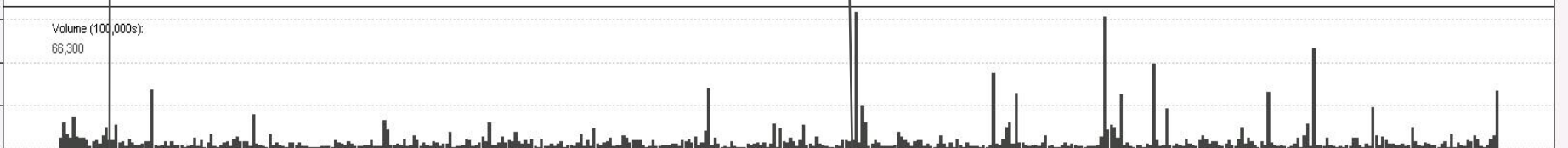
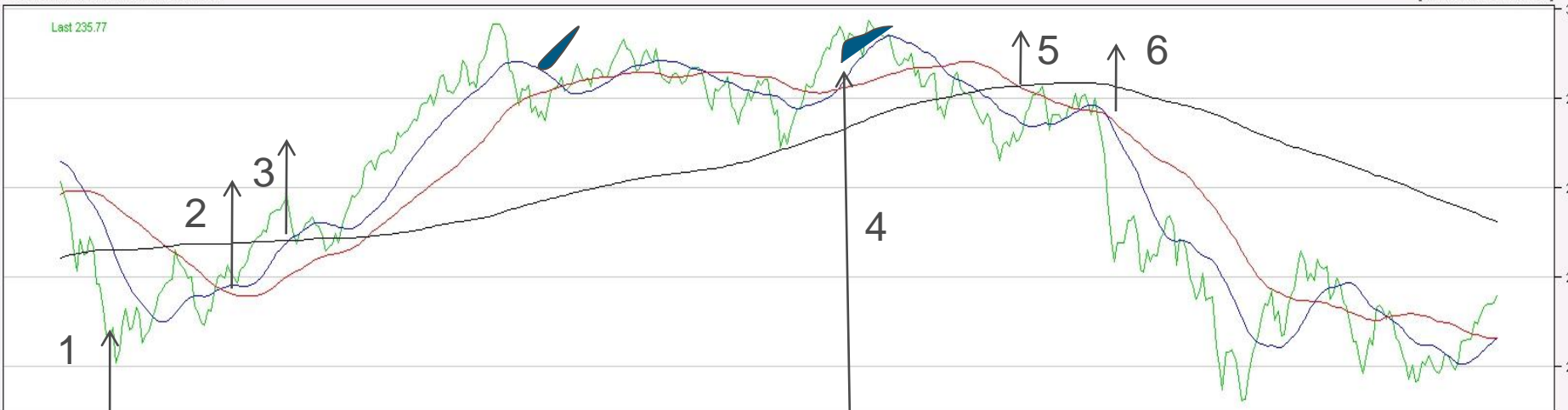
Classical Techniques

- Momentum
 - Change in price over a given period of time
 - As with Moving Averages, multiple time periods are examined
 - And also like Moving Averages, the number of times the momentum periods cross is a measure of roughness (volatility)

Adding Volume to Classical Analysis

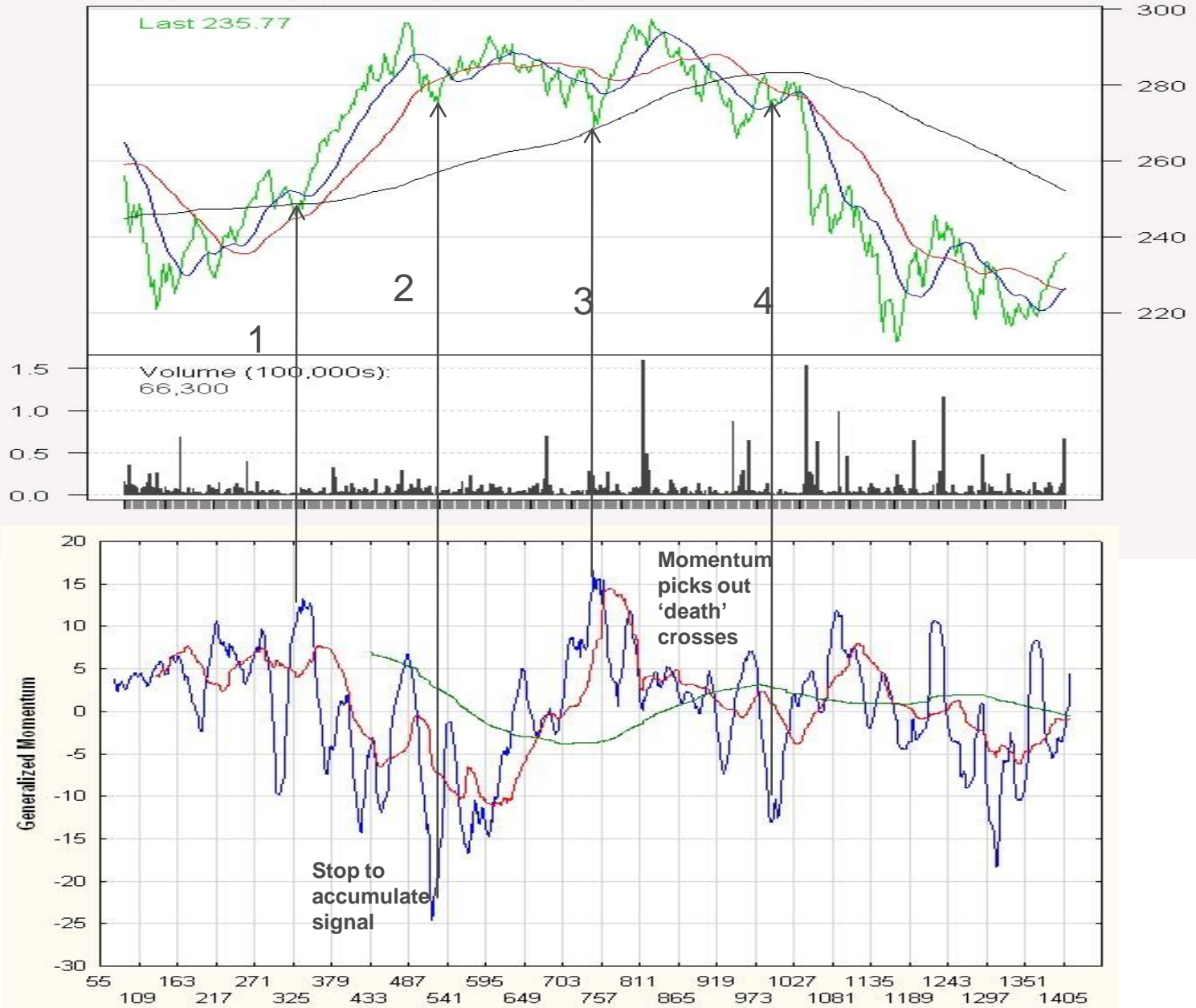
- Stock markets do have another component beside prices or volatilities. This is the volume of transactions.
- It is introduced here as the *physical mass of stocks*.
- Remember that the number of shares is constant over rather long time intervals, i.e. usually between splits, like the mass of an object.





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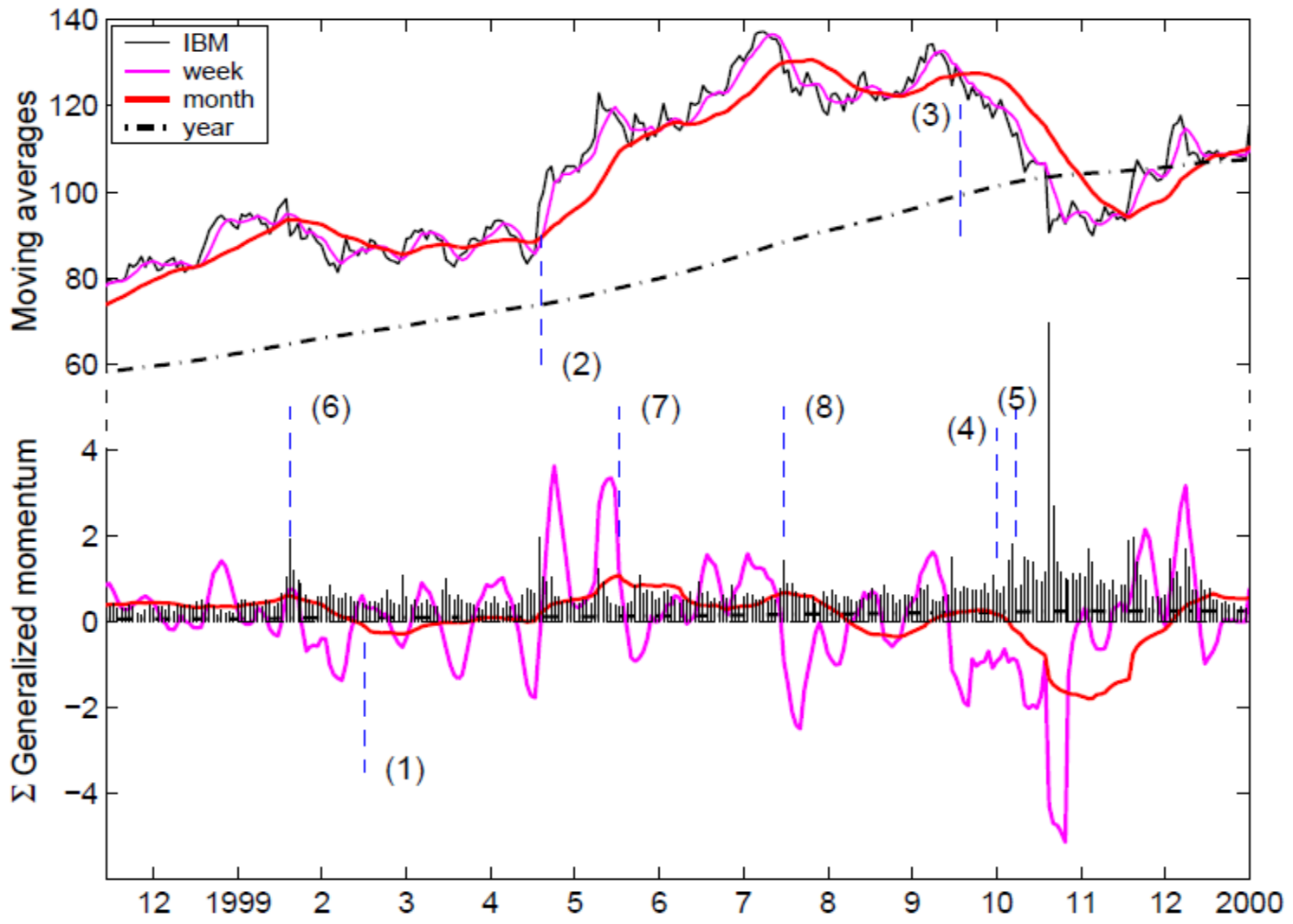
THOMSON REUTERS APAC x JAPAN [2010-05-04/2012-01-26]



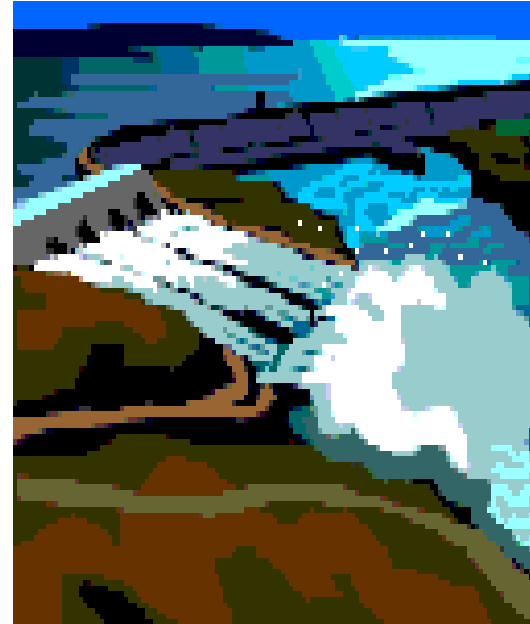
Classical vs. Generalized Momentum

- Both techniques give you entry points
 - Classical just before the initial signal such as the “golden” cross
 - Generalized just after so it tends to be a confirming signal
- Generalized momentum gives a clear stop to accumulate signal (line [2])
- Generalized momentum picks out “death” cross(es) and confirmation of same (line [4])
- Classical momentum gives a fuzzier signal of when to stop to accumulating and does not necessarily confirm exit signals
 - No real signal
 - Relies on “death” cross





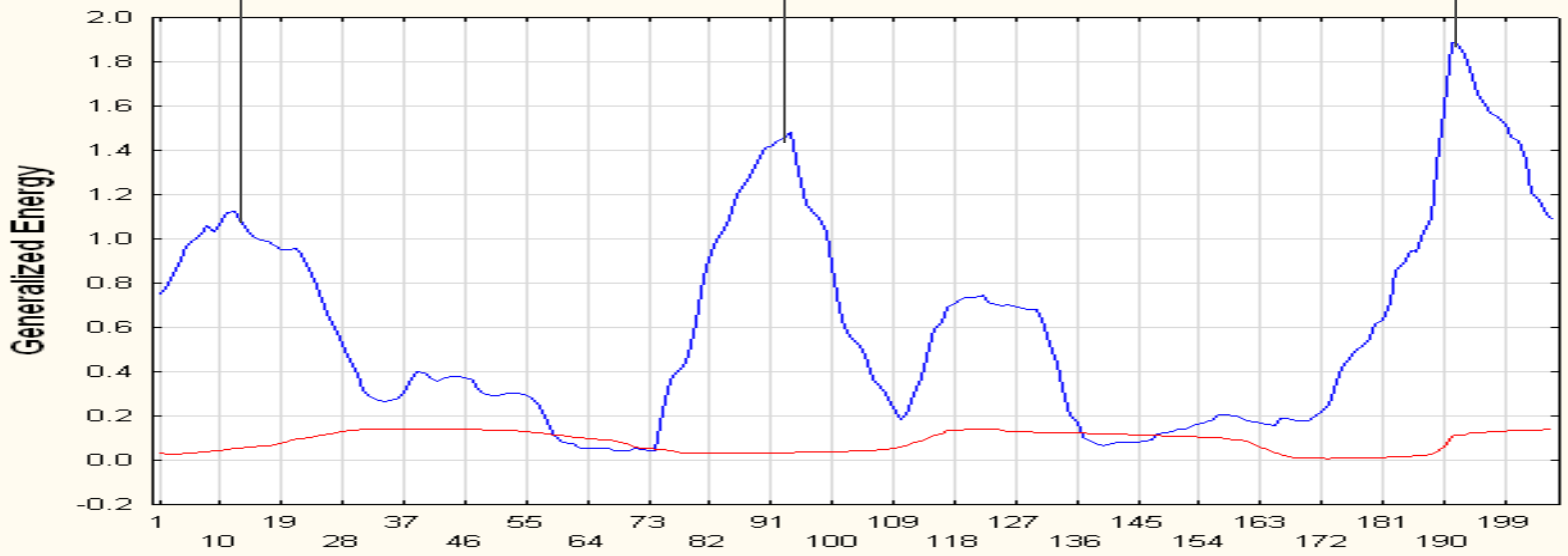
Which Produces More Energy?



Energy and Momentum

- Mechanically speaking, it can be said that some energy accumulates through the interplay of price and volume
- This causes a general force or pressure to arise
- We'll call this force the energy in the market
- The energy ranges from small to strong

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Generalized Energy

- The peak and associated drop off signified by line (1) (approx. Oct. 2007) indicates the market has “run out of steam”
- This is confirmed by the related Generalized Momentum indicator (not shown)
- The following 5+ months shows the market struggling

Generalized Energy

- The market “throws in the towel” just after the next energy peak occurs (which is bigger than the first) (Line 2)
- Again confirmed by generalized momentum
- Finally, at the last energy peak (line 3), the energy associated with the sell-off dissipates, setting the stage for the recovery, which occurs after the dissipation
- Also confirmed by generalized momentum

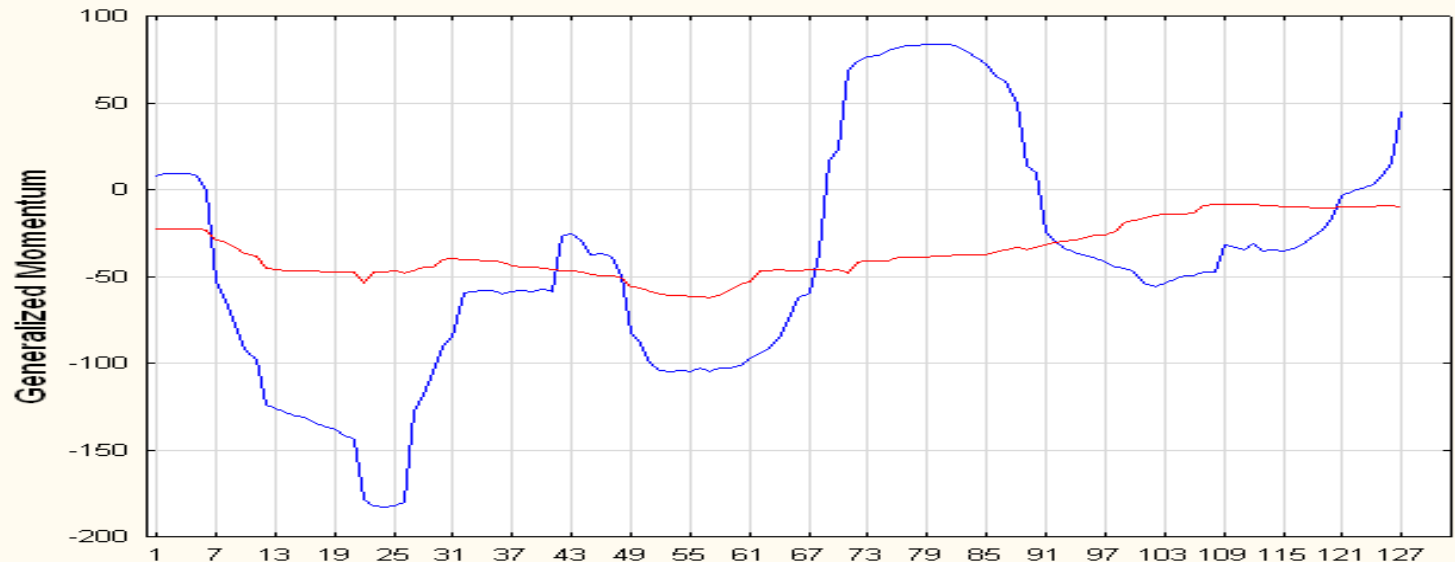
Generalized vs. Classical

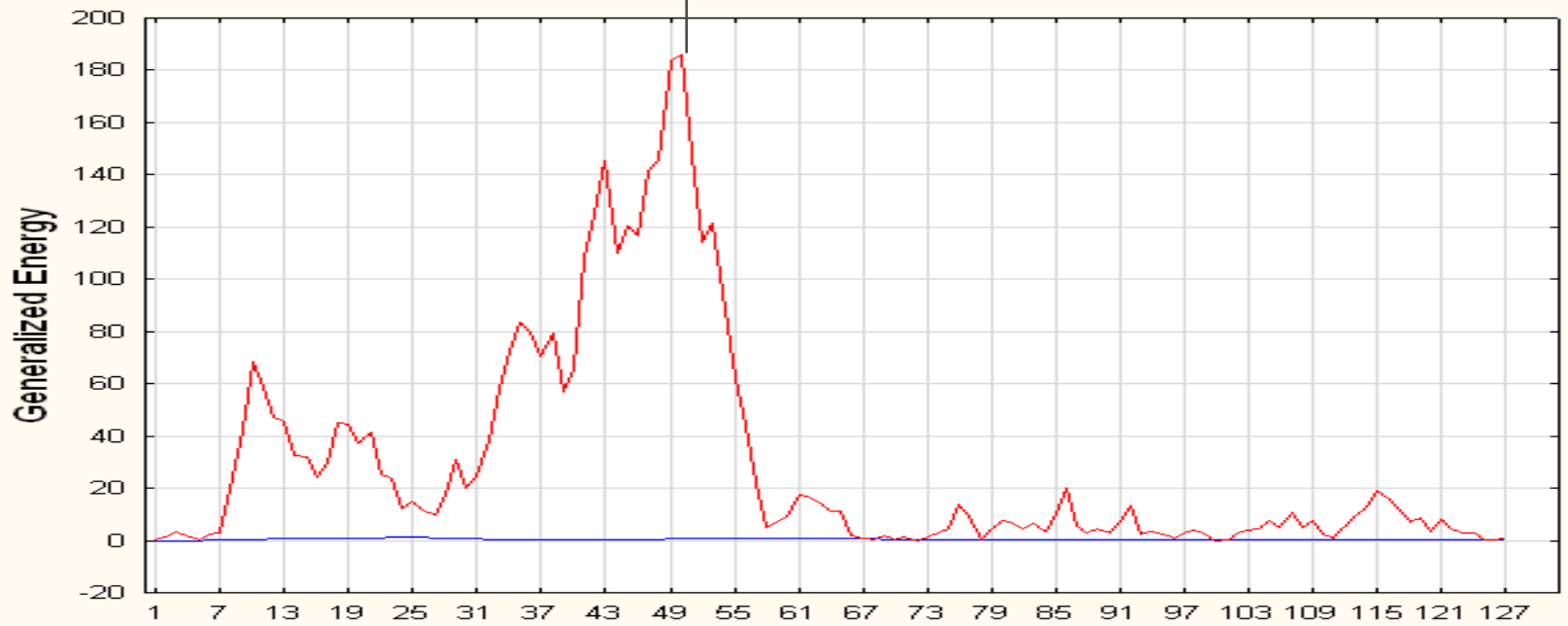
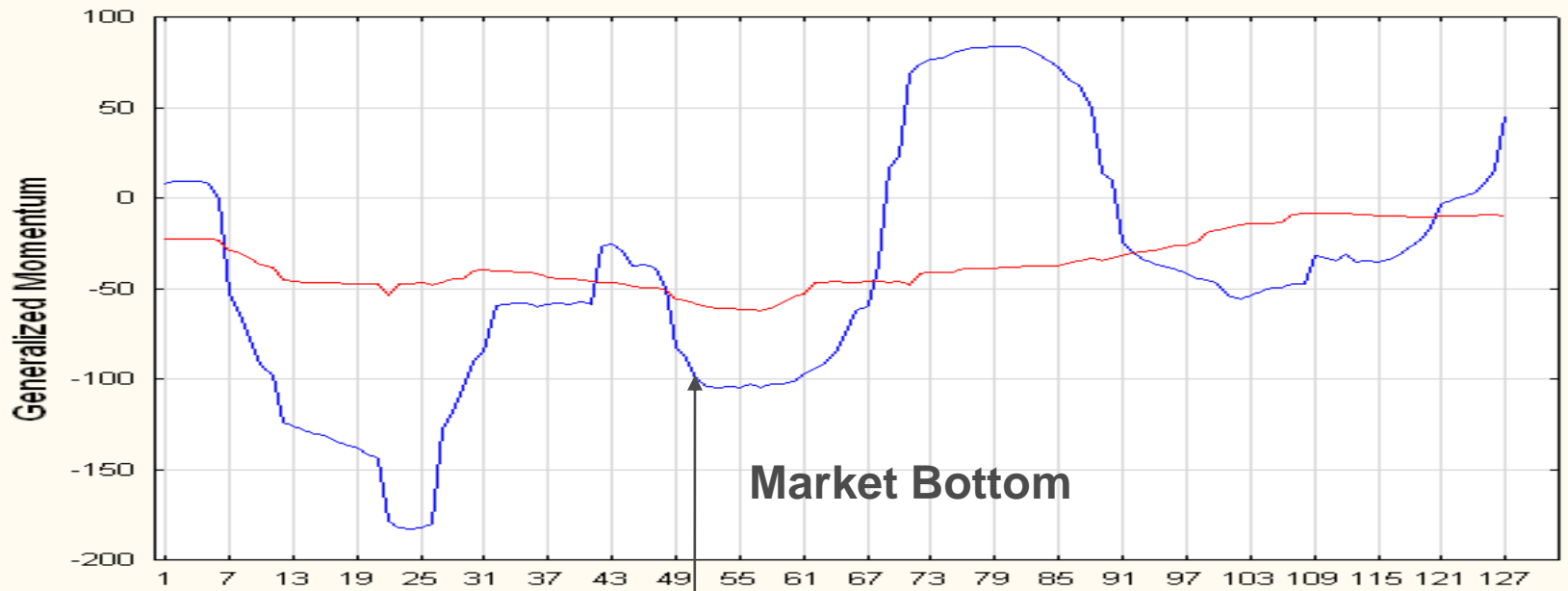
- Both rely upon moving averages – various “crosses” to either indicate entry and exit points or they anticipate them
- Both tend to give confirming signals but Classical less often
- Generalized gives clear signals for when accumulation needs to stop
- Generalized makes clear the relationship between momentum and the underlying forces in the market
- Most importantly a joint signal from momentum and energy warns of exhaustion points

WHERE IS APAC X JAPAN GOING?



THOMSON REUTERS APAC x JAPAN 2011-07-28/2012-01-26

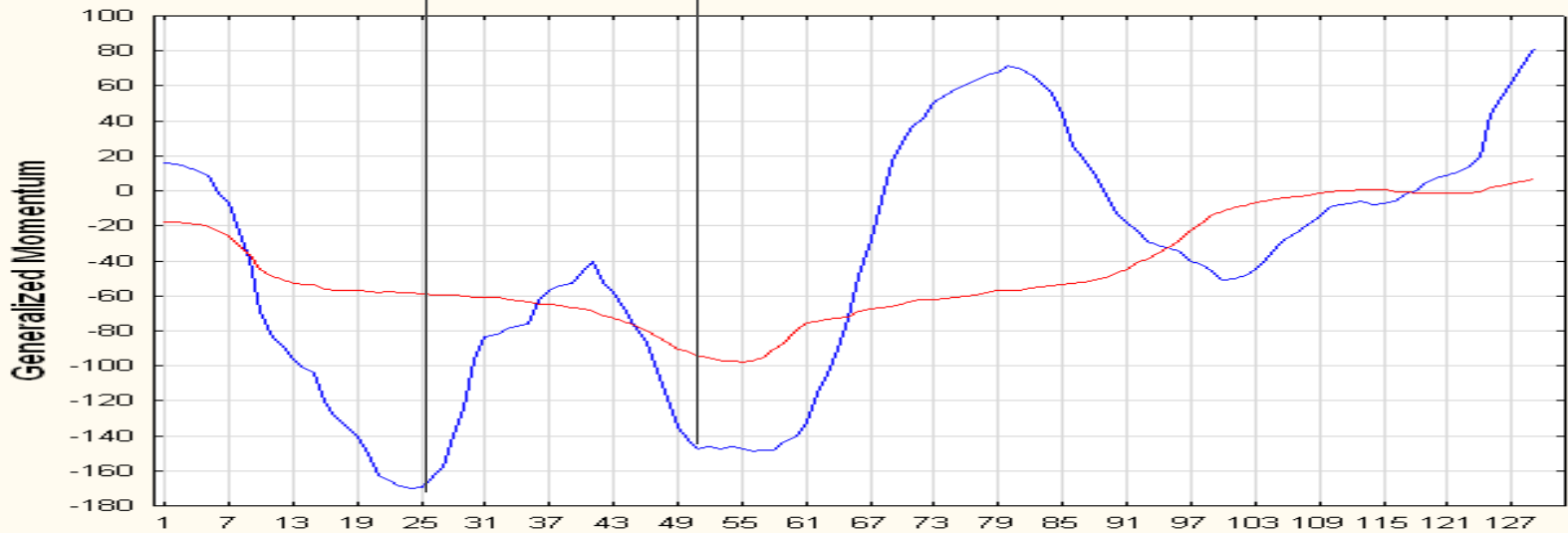


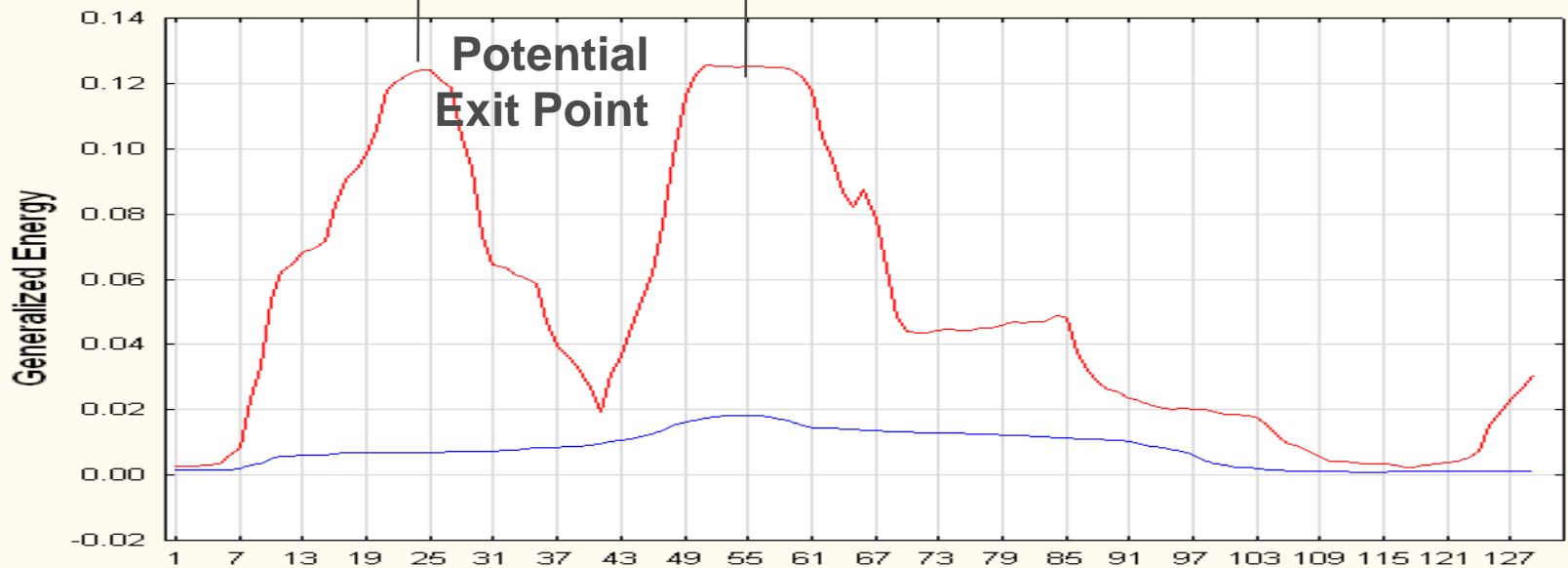
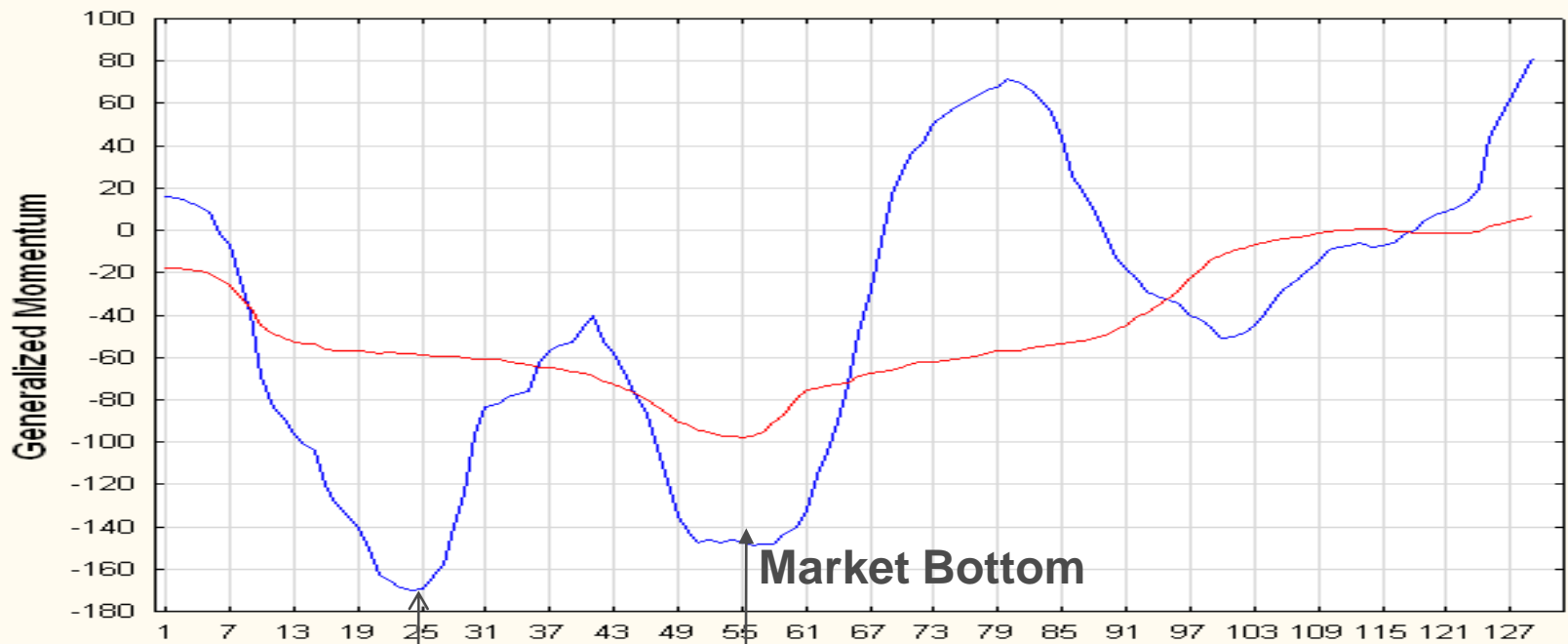


APAC x JAPAN OUTLOOK

- A golden cross is appearing
- Momentum clearly up
- Energy – the force behind the market – near historic lows
- So the “pressure” – the mix of price & volume – is in approximate equilibrium
- For the index to move up 10%
 - Volume can stay where it is or rise but not fall
- If volume falls 10% - 20%
 - Prices could fall 10%

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HONG KONG OUTLOOK

- Short and Medium Term momentum up
- Energy is rising so pressure, though limited at this pt, is increasing (could bear watching)
- For prices to rise, there must be volume follow through
- We say this because over the past 5 years, every increase in price above 220 (current index price) is accompanied by an increase in volume
- So any sustained price rise in the HK index must be followed by a rise in volume
- There is plenty of room for volume and/or prices to rise before the energy levels get high

Conclusions

- Current classical techniques are good at identifying entry points but just ok for exits
- Old market saying, “The market signals 1000s of entry points but few exits”
- Generalized techniques – those that marry price and volume and examine the energy in the market
- Add insight and confirm entry and exit points
- Signals when accumulation needs to stop
- They also signal, via energy alone or in conjunction with momentum, exhaustion points

Conclusions

- Examining the generalized output in conjunction with price and volume allows statements to be made about the interrelationship of price and volume in the future
- Open question: can the generalized indicators in conjunction with moving averages and classical momentum be used to develop an investment strategy?

Conclusions

- The “R” code to produce the generalized indicators is available from the presenter (“R” is math and stats freeware)
- The code requires good working knowledge of basic “R” and *is not* a Thomson Reuters product
- The presenter is making it available so others can test the generalized indicators themselves



QUESTIONS?

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