

Investor Sentiment: Risk-Love

Fading euphoria, staying put

Upbeat sentiment could trigger a short-term consolidation

Global Equity Risk-Love, our contrarian sentiment indicator for equities, has moved from near-panic (25th percentile) in October to euphoria now. It is currently stationed at the 83rd percentile of history since 1987, after touching the 90th percentile two weeks back, opening up the potential for a pullback in the near term. We find optimism brewing across categories – surveys, put-call ratios, positioning/flows, and volatility and spreads – especially in the developed world, with sell side strategists' average recommended allocation climbing to its highest level since May 2022 (see note).

Despite coming off a tad in recent weeks on a snapback in the JPY (slated to be one of the most closely followed themes in 2024 per the Asia FMS), <u>Japan Risk-Love</u> is still elevated at the 79th percentile of history. Exuberance around the economy and the market has tempered somewhat with the moderation in price pressures, but it still sits atop investors' market preference list, as cited by net 45% of <u>FMS investors (see note</u>).

<u>Asia ex-Japan</u> and <u>Emerging Markets</u> Risk-Love also moved higher on a souring of the dollar sentiment (USD: down 4% from November highs) but are safely ensconced in the neutral zone, with EEMEA contributing disproportionately on improving equity flows.

<u>China Risk-Love</u> is hovering in low neutral levels after halving over the last three years, as waning policy expectations add to the litany of macroeconomic challenges. Risk-Love for <u>Korea</u> and <u>Taiwan</u> advanced within the neutral zone on favorable views on the tech sector, with Korean semis exports accelerating to the highest level since March 2022.

Revisiting the checklist: hold your ground

We laid out a checklist of items last month to track the sustainability of the rally. See Mr. Market and his mood swings 01 Dec 2023. An update of the factors, along with our proprietary indicators (see note), advises us to **stick to a mildly positive stance**, even if elevated sentiment triggers a consolidation in the near term.

- **1. Technicals.** Market technicals remain steady despite the not-so-great start to the year, with 59% of global stocks and 88% of industry groups trading above their respective 200-day moving averages. If the pullback breaks down the market breadth though, a more holistic inspection is warranted.
- **2. Margin financing.** We are encouraged by the uptick in margin financing in the US in November but a more sustained pick-up is vital for the rally to continue.
- **3. Stock-bond correlation/Bond volatility**. Inflation has been the cornerstone of market gyrations over the past three years. Continued on page 2...

08 January 2024

Predictive Analytics Global

Data Analytics



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FMS: Fund Manager Survey

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Refer to important disclosures on page 19 to 21.

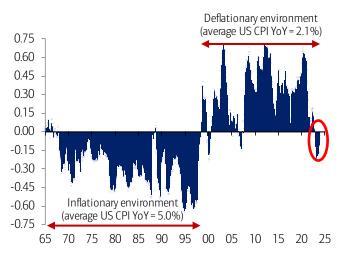
Timestamp: 08 January 2024 10:19AM EST

The negative equity-bond relationship in a backdrop of rising bond yields and bond volatility has been a concern for investors. But with the correlation gravitating towards zero as inflation settles down (*i.e.* rising rates unlikely to hurt equities), the setup is getting more palatable.

- **4. Labor market**. The gradual (*non-recessionary*) cooling in the labor market reflected in the <u>December employment report (see note)</u> says that rebalance is in progress, despite the beat in headline payrolls. High frequency job postings data corroborates the view.
- **5. Growth**. Growth-sensitive assets (such as cyclical/defensive stocks, copper, Korean exports, the US yield curve, BAA spread etc.) are tracking at the 34th percentile of history since 1988, considerably higher than the cycle lows of 8th percentile on 23 March 2023. Together with the upward revisions to the Atlanta Fed GDPNow, and the New York Fed Weekly Economic Index, it re-iterates that the US economy will likely be able to fend off the tightening cycle and avert a recession.

Exhibit 1: Stock-bond correlation has been negative since 4Q 2022...

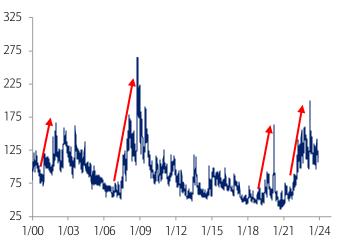
Rolling 1 yr correlation between S&P 500 and US bond yields



Source: BofA Predictive Analytics, Bloomberg. Notes: Based on daily returns.

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Exhibit 3: September spike in bond volatility was a cause of concern...Bond volatility: ICE BofA MOVE Index

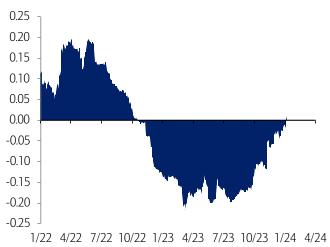


Source: BofA Predictive Analytics, ICE Data Indices, LLC, Bloomberg

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Exhibit 2: ...but is clawing back towards zero now i.e. rising rates unlikely to hurt equities

Rolling 1yr correlation between S&P 500 and US bond yields



Source: BofA Predictive Analytics, Bloomberg. Notes: Based on daily returns.

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Exhibit 4: ...but settling down now Bond volatility: ICE BofA MOVE Index



Source: BofA Predictive Analytics, ICE Data Indices, LLC, Bloomberg



Exhibit 5: Growth-sensitive assets smell no recession brewing

Based on assets with an opinion on global growth such as cyclical/defensive stocks, copper, Korean exports, the US yield curve, BAA spread etc.



Source: BofA Predictive Analytics, MSCI, Bloomberg, FactSet, Refinitiv

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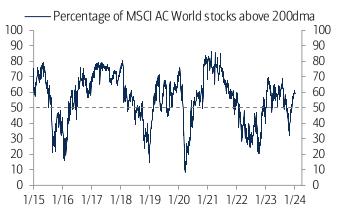
Exhibit 7: Uptick in US margin financing in November is encouraging but a more sustained pick-up is vital for the rally to continue

US Margin Debt (\$bn)



Exhibit 9: Market technicals are steady

Breadth of global stocks trading above 200-day moving average: at 59%

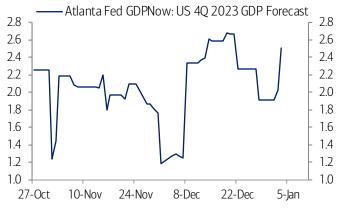


Source: BofA Predictive Analytics, MSCI, Bloomberg

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Exhibit 6: US projected to grow 2.5% QoQ (SAAR) in 4Q 2023

Atlanta Fed GDPNow: US 4Q 2023 GDP Forecast

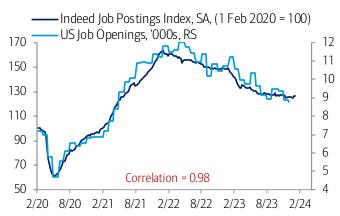


Source: FRB Atlanta, Bloomberg

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Exhibit 8: Labor market rebalance is in the works

The Indeed Job Postings Index is a 7-day moving average of job postings on Indeed sites as well as job-seeker search behavior on these sites

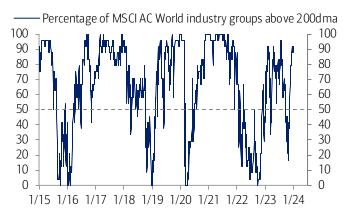


Source: BofA Predictive Analytics, BLS, Indeed, Bloomberg

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Exhibit 10: Market technicals are steady

Breadth of global sectors trading above 200-day moving average: at 88%



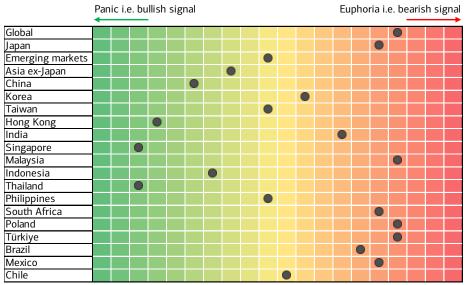
Source: BofA Predictive Analytics, MSCI, FactSet



Risk-Love Summary

Exhibit 11: Risk-Love Indicator (Equity sentiment) Summary

Where do Risk-Love indicators for individual countries/regions stand today vis-à-vis history?



Current value relative to history

Source: BofA Predictive Analytics

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Global Equity Risk-Love

Exhibit 12 shows our global equity Risk-Love indicator and Exhibits 13-16 show its components. This indicator tracks positioning, put-call ratios, investor surveys, price technicals and volatility, spreads, and correlations measures (see glossary for further details).

Exhibit 12: Global Equity Risk-Love

Global Risk-Love is at the 83rd percentile of its history since 1987



Source: BofA Predictive Analytics, Bloomberg

Exhibit 13: Global Equity Risk-Love indicator components heatmap

Where do input factors for Global Equity Risk-Love stand today vs. one month ago?

		▼ Pessimism	Optimism
	Indicator	i.e. bullish signal	i.e. bearish signal
	Positioning		
1	Broker optimism - Consensus stock rating for MSCI EM universe (W)		
	MSCI Emerging Markets ETF premium/discount to NAV (D)		
	Asia ex-Japan fund cash holdings (M)		
4	Investors' exposure to EMs - Global Fund Manager Survey - asset allocation (M)		
5	Investors' exposure to China - Global Fund Manager Survey - asset allocation (M)		
6	Commitment of commercial traders - S&P 500 Index futures longs to shorts (D)		
	Put call ratios		_
6	Put / call ratio at market open (ISE Sentiment Index) (D)		
7	CBOE put/call ratio (D)		
8	Euro Stoxx 50 put/call ratio (D)		
	Nikkei put/call volume ratio (D)		
	MSCI Emerging Markets ETF put/call volume ratio (D)		
11	S&P 500 options put/call skew (delta 25, 3month) (D)		
	Surveys		
	American Association of Individual Investors - bull less bearish ratio (W)		
	National Association of Active Investment Managers Exposure index (W)		
	Small retail trader sentiment (Daily sentiment index) for S&P 500 (D)		
	Major professional brokerage firms and advisors sentiment (Consensus Bullish Sentiment Index) (W)		
16	Emerging markets economic surprises Index (D)		
	University of Michigan Survey of Consumer Confidence Sentiment (M)		
18	Commodity sentiment (Daily Sentiment index) (D)		
	Technicals		
	Emerging markets cyclicals/defensives (3m change) (D)		
20	Emerging market turnover, % MSCI market cap (D)		
21	MSCI Emerging Markets - distance from 200D moving average (D)		
	Volatility/spreads/correlations		
	CBOE S&P500 VIX Index (D)		
	Eurozone volatility index VSTOXX (D)		
	CBOE Emerging Markets ETF volatility index (D)		
	Nikkei volatility index (D)		
	SPDR S&P 500 ETF short interest ratio		
27	Hong Kong short interest, % total turnover (D)		
	Asia Pac ex-Japan stock-to-stock correlations (M)		
	EM stock less bond returns (6m change) (D)		
	BofA option volatility estimate (MOVE) index (bond volatility) (D)		
	Global FX volatility index (D)		
	Asia ex-Japan CDS spread (D)		
	US 2Y swap spread (D)		
34	BAA spread (Moody's corporate bond yields less US 10Y govt bond yield) (D)		
	Global equity Risk-Love		

Current value One month ago

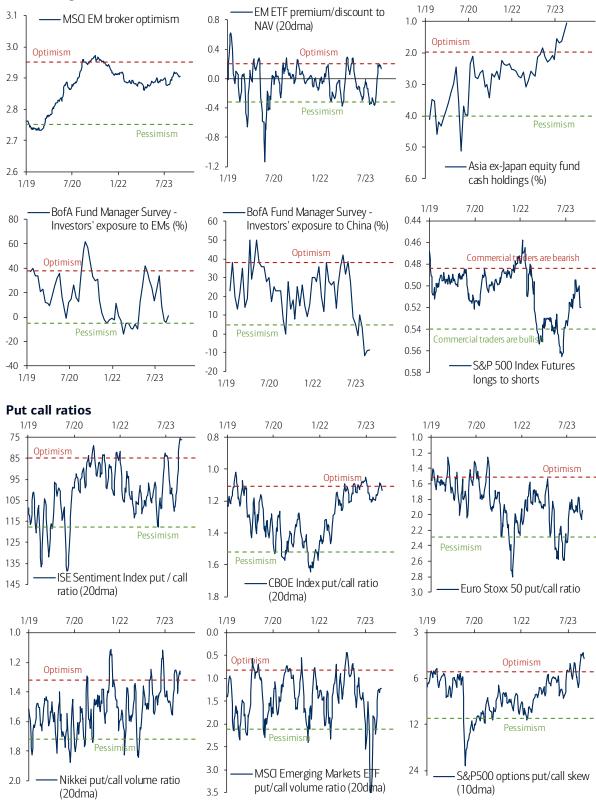
Source: BofA Predictive Analytics, Eikon Refinitiv, Bloomberg, CEIC, Factset, BofA Asia Pac Quantitative Strategy, Trade Futures, Consensus Inc. See Appendix for details. Note: D denotes daily data, W denotes weekly data and M denotes monthly data.



Exhibit 14: Global Equity Risk-Love indicator components trends

Recent trends in positioning and put-call ratios factors



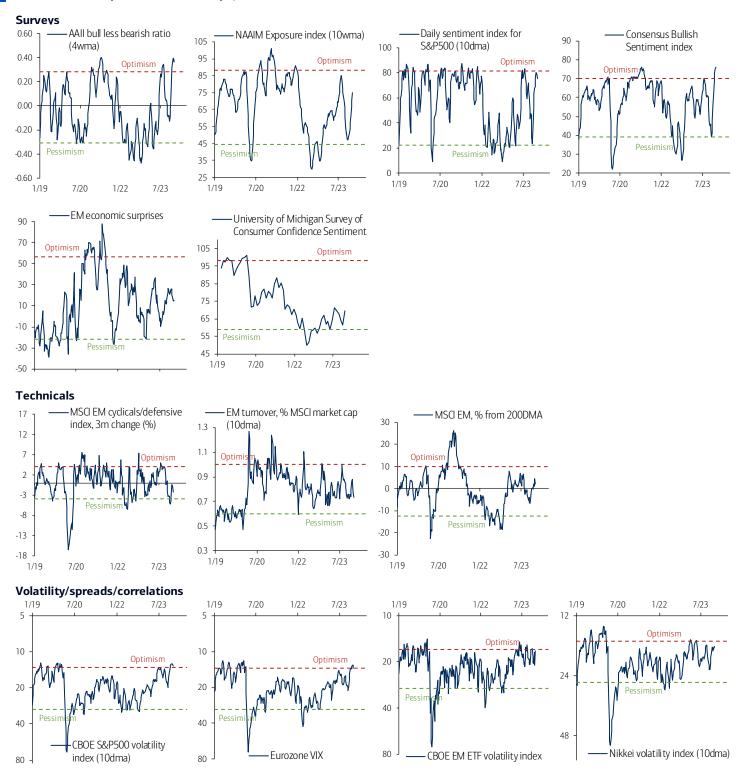


Source: BofA Predictive Analytics, Eikon Refinitiv, Bloomberg, CEIC, Factset, Trade Futures, Consensus Inc



Exhibit 15: Global Equity Risk-Love indicator components trends cont'd

Recent trends in surveys, technical, and volatility/spreads/correlations factors

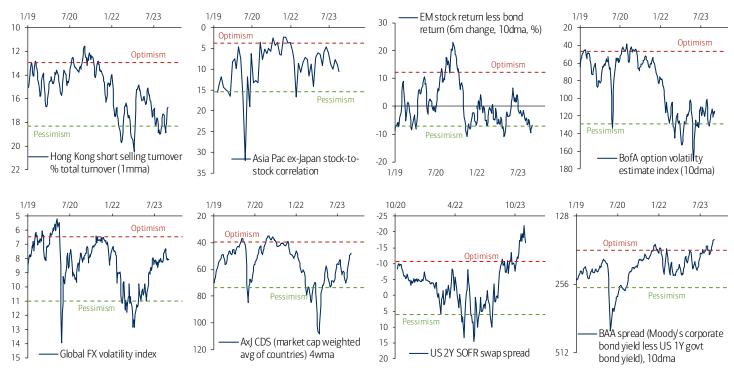


Source: BofA Predictive Analytics, Eikon Refinitiv, Bloomberg, CEIC, Factset, Trade Futures, Consensus Inc

Exhibit 16: Global Equity Risk-Love indicator components trends cont'd

Recent trends in volatility/spreads/correlations factors

Volatility/spreads/correlations contd...



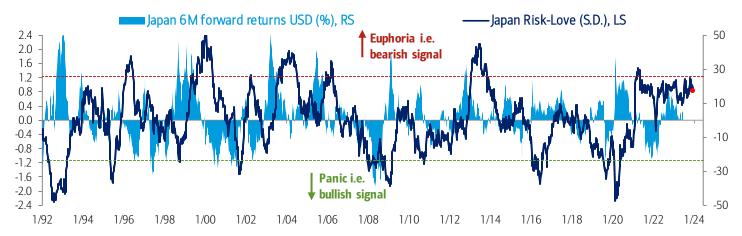
Source: BofA Predictive Analytics, Eikon Refinitiv, Bloomberg, CEIC, Factset, Trade Futures, Consensus In, BofA Asia Pac Quantitative Strategy

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Risk-Love by market

Exhibits 17-35 show Risk-Love measures for Asia and emerging markets.

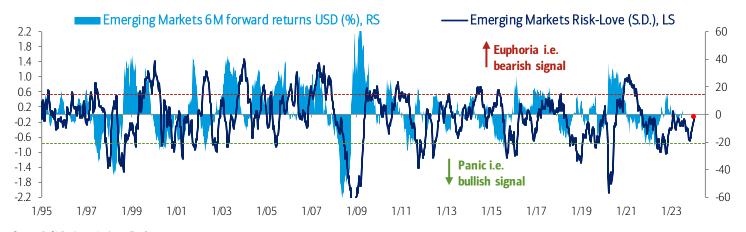
Exhibit 17: Japan Risk-Love is in the neutral zone Japan Risk-Love



Source: BofA Predictive Analytics, FactSet

Exhibit 18: Emerging Markets Risk-Love is in the neutral zone

Emerging Markets Risk-Love

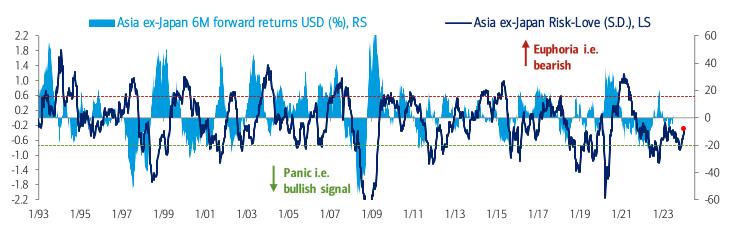


Source: BofA Predictive Analytics, FactSet

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Exhibit 19: Asia ex-Japan Risk-Love is in the neutral zone

Asia ex-Japan Risk-Love

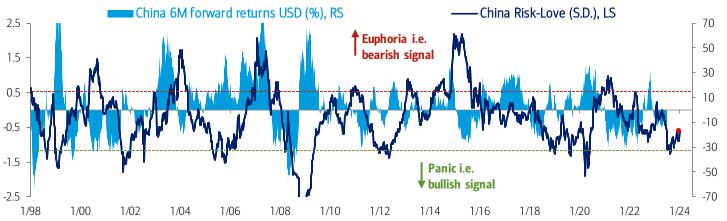


Source: BofA Predictive Analytics, FactSet

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Exhibit 20: China Risk-Love is in the neutral zone

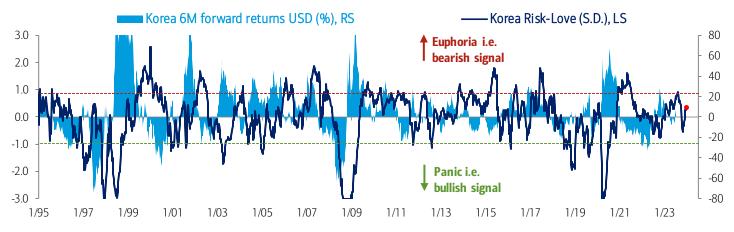
China Risk-Love



Source: BofA Predictive Analytics, FactSet

Exhibit 21: Korea Risk-Love is in the neutral zone

Korea Risk-Love



 $\textbf{Source:} \ \ \mathsf{BofA} \ \mathsf{Predictive} \ \mathsf{Analytics}, \ \mathsf{FactSet}$

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Exhibit 22: Taiwan Risk-Love is in the neutral zone

Taiwan Risk-Love



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Exhibit 23: Hong Kong Risk-Love has come out of the panic zone

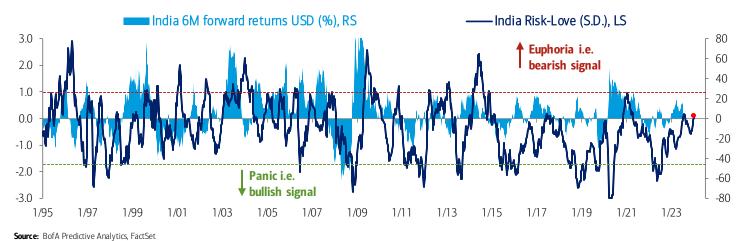
Hong Kong Risk-Love



Source: BofA Predictive Analytics, FactSet

Exhibit 24: India Risk-Love is in the neutral zone

India Risk-Love



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Exhibit 25: Singapore Risk-Love is still in the panic zone

Singapore Risk-Love



Exhibit 26: Malaysia Risk-Love is in the neutral zone

Malaysia Risk-Love



Exhibit 27: Indonesia Risk-Love is in the neutral zone

Indonesia Risk-Love

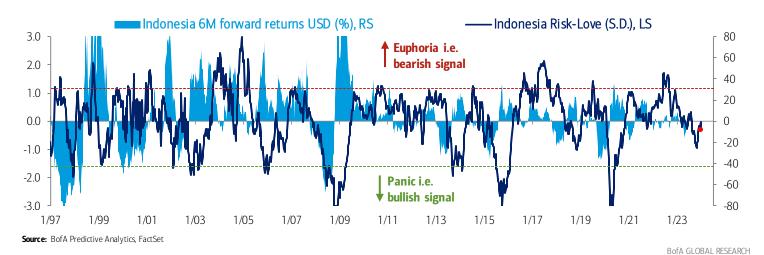


Exhibit 28: Thailand Risk-Love is still in the panic zone

Thailand Risk-Love

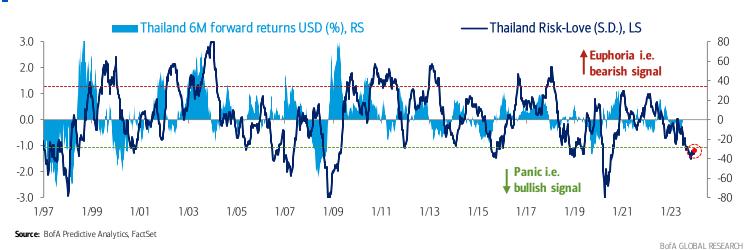


Exhibit 29: The Philippines Risk-Love is in the neutral zone

The Philippines Risk-Love

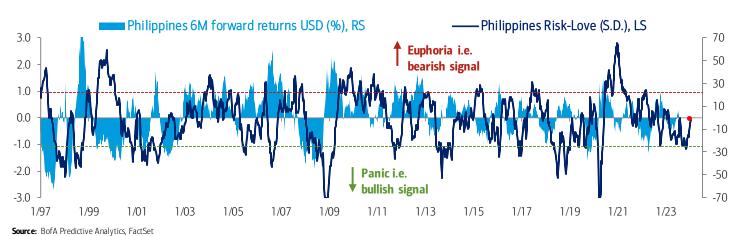


Exhibit 30: South Africa Risk-Love is close to euphoria

South Africa Risk-Love



Source: BofA Predictive Analytics, FactSet

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Exhibit 31: Poland Risk-Love is close to euphoria

Poland Risk-Love



Source: BofA Predictive Analytics, FactSet

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Exhibit 32: Türkiye Risk-Love is close to euphoria

Türkiye Risk-Love



Source: BofA Predictive Analytics, FactSet

Exhibit 33: Brazil Risk-Love is in the neutral zone

Brazil Risk-Love

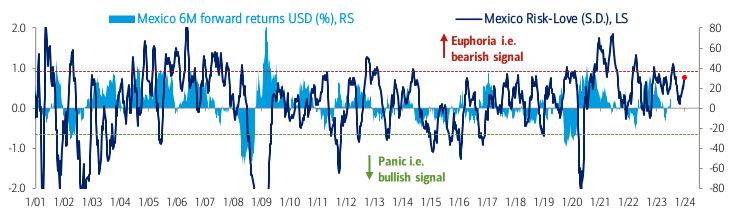


Source: BofA Predictive Analytics, FactSet

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Exhibit 34: Mexico Risk-Love is in the neutral zone

Mexico Risk-Love

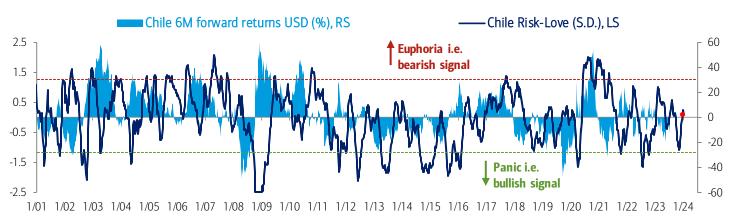


Source: BofA Predictive Analytics, FactSet

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Exhibit 35: Chile Risk-Love is in the neutral zone

Chile Risk-Love



Source: BofA Predictive Analytics, FactSet

Exhibit 36: Market intelligence as of 5 January 2024

Performance, valuation and growth information by country/region

Pegion/Cruntty (8 Co) McSapt 2025 VID 1m Re (b) 1074 Re (c)	5-Jan-2024		US	D perf (%)					12m forward					EPS grov	wth^ (%)
Sunth-Memirati(F)			2023	VTD	1m	DE (v)		PR (v)					ROE (%)	10V avg	CV2023	CV2024
Canada 19 4 12 5 10 48 14 0 42 17 08 11 33 51 12 4 11 9 85 68 68 68 69	North America (697)															
USIGOS 41,393 250 1-7 28 198 93 39 243 1.4 15 197 198 173 20 108 100																
Europe (427) 10.479 56.7 - 1.1 35 12.9 - 1.01 18. 52. 1.01 35 0.11 14.1 12.1 2.5 5.4 Belgum (13) 154 41 0.3 1.5 16.5 4.9 16. 42.6 0.6 2.8 11.6 95 10.3 0.3 3.0 3.0 4.9 31.3 Denmark (16) 533 2.97 2.3 7.6 27.5 5.7	()															
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Decrement(16) 593 297 23 76 275 367 54 40.8 12 17 22.8 197 189 313 170 Fincanc (16) 1906 188 22 22 132 79 17 140 09 33 37 132 110.8 03 36 Gemany(58) 1365 199 18 15 112 134 13 108 09 36 102 119 116 03 77 Indian (16) 84 22.9 16 49 12.9 233 15 118 05 30 400 119 116 03 77 Indian (16) 84 22.9 16 49 12.9 233 15 118 05 30 400 119 116 03 77 Indian (17) 10 10 10 10 10 10 10 1																
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Gemany (58) 1.365 199 -18 15 112 -134 13 -108 09 3.6 -102 119 116 03 7.7 Ireland (6) 84 229 -1.6 49 129 -2.33 15 -118 05 30 -400 119 10.4 423 1.2 Italy (24) 427 31.7 0.2 2.8 3 -2.95 12 7.5 0.6 5.8 -2.49 148 10.1 11.0 0.3 Netherlands (26) 723 23.7 -3.6 2.3 17.0 -1.8 2.6 17.8 1.1 2.2 11.7 15.2 12.8 22.6 6.5 Norway (12) 110 -0.4 0.7 7.9 10.3 -18.8 17 31 0.9 6.0 -2.20 16.2 132 -37.8 11.6 Norway (12) 110 -0.4 0.7 7.9 10.3 -18.8 17 31 0.9 6.0 -2.20 16.2 132 -37.8 11.6 Norway (12) 110 -0.4 0.7 7.9 10.3 -18.8 17 31 0.9 6.0 -2.20 16.2 132 -37.8 11.6 Norway (12) 433 28.2 0.3 11 10.3 -19.0 12 1.9 10 51 -10.8 11.8 9.5 12.2 30 7.5 Spart (10) 433 28.2 0.3 11 10.3 -19.0 12 1.9 10 51 -10.8 11.8 9.5 12.2 30 Norway (12) 49.7 10.0 -4.2 56 14.2 -10.0 2.7 5.4 1.1 3.7 1.5 15.7 13.5 70.2 0.3 Norway (14) 11.6 1.3 1.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	France (61)		18.8	-2.2	2.2	13.2	-7.9	1.7	14.0	0.9	3.3	3.7	13.2	10.8		
Incland (6)	Germany (58)		19.9	-1.8	1.5	11.2	-13.4	1.3	-10.8	0.9	3.6	-10.2	11.9	11.6	0.3	
Netherlands (76)	Ireland (6)		22.9	-1.6	4.9	12.9	-23.3	1.5	-11.8	0.5	3.0	-40.0	11.9	10.4	42.3	1.2
Norway (12) 110	Italy (24)	427	31.7	0.2	3.2	8.3	-29.5	1.2	7.5	0.6	5.8	-24.9	14.8	10.1	11.0	-0.3
Portugal (4) 36 51 0.7 33 15.4 6.3 2.1 12.0 12 3.7 11.9 13.3 11.2 33.0 7.5	Netherlands (26)	723	23.7	-3.6	2.3	17.0	-1.8	2.6	17.8	1.1	2.3	11.7	15.2	12.8	22.6	6.5
Span (19)	Norway (12)	110	-0.4	0.7	7.9	10.3	-18.8	1.7	3.1	0.9	6.0	-22.0	16.2	13.2	-37.8	11.6
Swetch (42)	Portugal (4)	36	5.1	-0.7	3.3	15.4	-6.3	2.1	12.0	1.2	3.7	11.9	13.3	11.2	33.0	7.5
Switzerland (45)	Spain (19)															
UK (87)	Sweden (42)	497	21.0		5.6		-10.0	2.2		1.1	3.7	1.5	15.7	13.5	20.2	
Sea Pace 14 1106						17.2	-0.6	3.1		1.4		-0.3	18.3			
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Source: BofA Predictive Analytics, MSCI, IBES estimates. Note: numbers in red text indicate that the valuation metric is 2 standard deviations above its 10-year average. Numbers in green indicate the valuation metric is 2 standard deviations below its 10-year average. #Positive deviation for dividend yield implies current dividend is LOWER than the 10yr average and vice-versa. *Market caps shown are free float. ^Currency for EPS growth estimates: (a) UK: GBP; (b) Eurozone country and regional indices: EUR; (c) Other regional indices, Russia, Peru: USD; (d) Other individual countries: Local currency.



Glossary

Global Equity Risk-Love factors

Positioning

1. Commitment of traders - S&P 500 Index futures: longs to shorts

Measures open interest for all traded S&P500 commercial futures, broken down into long and short positions.

2. MSCI EM broker optimism

Market cap-weighted consensus (IBES) stock rating for the MSCI EM universe.

3. MSCI Emerging Markets ETF premium/discount to NAV

The difference between the closing price of the fund/ETF and that day's NAV.

4. Asia ex-Japan fund cash holdings

The fund-weighted average of percentage of cash relative to total asset held by active funds that have dedicated geographic exposure to Asia ex-Japan.

5. Investors' exposure to EMs - Global FMS - asset allocation

Based on the BofA Global Fund Manager Survey, this measures the net percentage of global asset allocators saying they are overweight Emerging Market equities.

6. Investors' exposure to China - Global FMS - asset allocation

Based on the BofA Global Fund Manager Survey, this measures the net percentage of global asset allocators saying they would overweight China equities.

Put/call ratios

The Put/Call ratio shows put option volume relative to call option volume. Sentiment is deemed excessively bearish when the ratio is at relatively high levels, and excessively bullish when at relatively low levels.

Indicators used include:

- 1. Put/Call ratio at market open (ISE Sentiment Index)
- 2. CBOE Put/Call ratio
- 3. Euro Stoxx 50 put/call ratio
- 4. Nikkei put/call volume ratio
- 5. MSCI Emerging Markets ETF put/call volume ratio
- 6. S&P 500 options put/call skew (delta 25, 3-month)

Surveys

1. American Association of Individual Investors - bull less bearish ratio

This ratio reflects the sentiment of individual investors towards the stock market over the next six months – either bullishness or bearishness in the stock market. The question asked is "I feel that the direction of the stock market over the next six months will be". High bullish readings in the poll usually are signs of market tops; lows ones, market bottoms.

2. National Association of Active Investment Managers Exposure index

The index represents the average exposure to US equity markets reported by members of the Association of Active Investment Managers. It provides insight into the actual adjustments active risk managers have made to client accounts over the past two weeks.



3. Small retail trader sentiment (Daily sentiment index) for S&P 500

This is a contrary opinion indicator. High % bullish readings suggest that a short-term top is developing or has been made. Low % bullish readings suggest that a short term bottom is developing or has been made.

4. Major professional brokerage firms and advisors sentiment (Consensus Bullish Sentiment Index)

A gauge of positions and attitudes of major professional brokers and advisors, which provides an indication of potential market directions. When a predominant number of market analysts are bearish, it is quite likely that the market is approaching an oversold condition, and that a reversal in trend may be forthcoming.

5. Emerging markets economic surprises Index

The Citi Economic Surprise Index measure data surprises relative to market expectations. A positive reading means that data releases have been stronger than expected and a negative reading means that data releases have been worse than expected.

6. University of Michigan Survey of Consumer Confidence Sentiment

This Index is comprised of measures of attitudes toward personal finances, general business conditions, and market conditions or prices.

7. Small retail trader sentiment (Daily sentiment index) for commodities

This is a contrary opinion indicator. High % bullish readings suggest that a short-term top is developing or has been made. Low % bullish readings suggest that a short term bottom is developing or has been made.

Technicals

1. Emerging Markets cyclicals/defensives (3m change)

The 3-month change in the MSCI EM cyclicals/defensives index, where cyclicals comprise energy, materials, consumer discretionary and industrials sectors and defensives comprise consumer staples, healthcare, utilities and telecom sectors.

2. Emerging Market turnover, % MSCI market cap

Turnover of MSCI Emerging markets as a percentage of MSCI market cap.

3. MSCI Emerging Markets - distance from 200D moving average

The higher the index is from its 200-day moving average, the more bullish the market is becoming.

Volatility/spreads/correlations

Volatility indices

Measures the implied volatility of options on the underlying index or ETF. Lower readings indicate complacency in the market and higher readings represent greater uncertainty/fear.

- 1. CBOE S&P500 VIX Index
- 2. Eurozone volatility index VSTOXX
- 3. CBOE Emerging Markets ETF volatility index
- 4. Nikkei stock average volatility index
- 5. Hong Kong short interest, % total turnover

Hong Kong Main Board short selling turnover value as a percentage of total turnover



6. Asia Pac ex-Japan stock-to-stock correlations

This is calculated as the 3-month rolling stock-to-stock correlation of daily price returns of all the stocks in the region. The lower the correlation, the higher the opportunities for investors to add alpha from stock selection.

7. EM stock less bond returns

Calculated as the difference between 6-month total returns of the MSCI EM index and BofA Global EM sovereign and credit index.

8. BofA option volatility estimate (MOVE) index

This is a yield curve weighted index of the normalized implied volatility on 1-month Treasury options.

9. Global FX volatility index

10. Asia ex-Japan CDS spread

Market cap-weighted CDS spread of 8 Asia ex-Japan markets.

11. US 2Y swap spread

The spread between the rate on a two-year interest-rate swap and U.S. Treasury yields.

12. BAA spread

This is calculated as Moody's corporate (BAA) bond yield less the US 10Y government bond yield.

Options Risk Statement

Potential Risk at Expiry & Options Limited Duration Risk

Unlike owning or shorting a stock, employing any listed options strategy is by definition governed by a finite duration. The most severe risks associated with general options trading are total loss of capital invested and delivery/assignment risk... all of which can occur in a short period.

Investor suitability

The use of standardized options and other related derivatives instruments are considered unsuitable for many investors. Investors considering such strategies are encouraged to become familiar with the "Characteristics and Risks of Standardized Options" (an OCC authored white paper on options risks). U.S. investors should consult with a FINRA Registered Options Principal.

For detailed information regarding the risks involved with investing in listed options: http://www.theocc.com/about/publications/character-risks.jsp



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Important Disclosures

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Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R1}

Buy	≥ 10%	≤ /0%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

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