The Impact of Global Events on Currency Exchange Rates

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Chapter I: Introduction

1.1 Background of the Study

Currency exchange rates represent one of the most critical components of the modern global financial system. These rates determine the relative value of one currency against another and play a fundamental role in international trade, foreign investments, economic policy formulation, and overall economic stability. The dynamic nature of exchange rates makes them highly sensitive to various internal and external factors, with global events being among the most significant drivers of currency fluctuations.

In today's interconnected world, economies are more interdependent than ever before. What happens in one part of the world can have immediate and far-reaching consequences on currency markets across the globe. Global events such as financial crises, geopolitical tensions, natural disasters, pandemics, political changes, and economic policy shifts can trigger substantial volatility in foreign exchange markets.

The significance of understanding the relationship between global events and currency exchange rates has become increasingly apparent, especially in light of recent major global disruptions. The 2008 global financial crisis demonstrated how quickly currency markets could be destabilized, with several currencies experiencing dramatic depreciation while safe-haven currencies like the US Dollar and Japanese Yen strengthened significantly. Similarly, the Brexit referendum in 2016 caused unprecedented volatility in the British Pound, affecting not only the UK economy but also having ripple effects across European and global markets.

More recently, the COVID-19 pandemic that began in 2020 has provided another stark example of how global events can reshape currency markets. The pandemic led to massive capital flight from emerging markets to developed economies, causing significant depreciation in many developing country currencies while strengthening reserve currencies. The subsequent economic recovery patterns have continued to influence exchange rate movements as countries have implemented different monetary and fiscal policies.

The ongoing Russia-Ukraine conflict, which escalated in 2022, has further highlighted the vulnerability of currency markets to geopolitical events. The conflict has not only affected the Russian Ruble and Ukrainian Hryvnia directly but has also impacted global commodity prices, energy markets, and broader economic sentiment, influencing currencies worldwide.

For India specifically, as an emerging economy with significant integration into global markets, understanding these dynamics is crucial. The Indian Rupee has experienced considerable volatility in response to global events, affecting everything from import costs and inflation to foreign investment flows and monetary policy decisions by the Reserve Bank of India.



1.2 Problem Statement

Despite the obvious relationship between global events and currency fluctuations, there remains a significant gap in comprehensive understanding of how different types of global events impact various currencies differently, both in the short term and long term. While individual events have been studied, there is limited research that provides a holistic view of the patterns and mechanisms through which global events influence exchange rates.

ISSN: 2582-3930

This knowledge gap creates challenges for various stakeholders. Policymakers struggle to anticipate and prepare for currency volatility following global events. Businesses engaged in international trade face difficulties in managing currency risk effectively. Investors lack comprehensive frameworks for understanding how global events might affect their currency exposures. Financial institutions need better models for predicting and managing currency-related risks.

The problem is further complicated by the fact that the impact of global events on currencies is not uniform. Different currencies respond differently to the same event based on factors such as economic fundamentals, political stability, market depth, and investor perception. Additionally, the duration and magnitude of impact can vary significantly.

1.3 Significance of the Study

This research holds significant importance for multiple reasons:

Academic Contribution: This study contributes to the existing body of knowledge by providing a comprehensive analysis of how various types of global events impact currency exchange rates. It offers insights into the mechanisms and patterns of currency responses to external shocks.

Policy Implications: The findings can assist central banks and government policymakers in developing more effective strategies for managing currency stability during times of global uncertainty. Understanding these patterns can help in designing appropriate interventions and policy responses.

Business Applications: For multinational corporations and businesses engaged in international trade, this research provides valuable insights into currency risk management strategies. Companies can better prepare for potential currency fluctuations following global events.

Investment Decision-Making: Individual and institutional investors can benefit from understanding how different types of global events typically affect various currencies, helping them make more informed investment decisions and portfolio allocation choices.

Risk Management: Financial institutions can enhance their risk management frameworks by incorporating insights into event-driven currency volatility into their models and processes.

1.4 Scope of the Study

This research focuses on analyzing the impact of major global events on currency exchange rates over the past two decades (2000-2024). The study examines:

Geographic Scope: The research primarily focuses on major global currencies including the US Dollar (USD), Euro (EUR), British Pound (GBP), Japanese Yen (JPY), and the Indian Rupee (INR), while also considering other significant currencies where relevant.

Temporal Scope: The analysis covers the period from 2000 to 2024, capturing major global events such as the dot-com crash, 9/11 attacks, 2008 financial crisis, European debt crisis, Brexit, COVID-19 pandemic, and recent geopolitical tensions.

DOI: 10.55041/IJSREM51524 © 2025, IJSREM | www.ijsrem.com Page 2



Event Categories: The study categorizes global events into several types: financial crises and market crashes, geopolitical events (wars, conflicts, terrorist attacks), health pandemics and natural disasters, major political changes and policy shifts, commodity price shocks, and trade wars and economic sanctions.

Analytical Scope: The research examines both quantitative impacts (percentage changes in exchange rates) and qualitative factors (market sentiment, investor behavior) associated with global events.

1.5 Research Questions

This study seeks to answer the following key research questions:

- How do different types of global events impact major currency exchange rates in terms of direction and magnitude?
- What are the differences between short-term and long-term effects of global events on currency stability?
- Which currencies demonstrate the highest resilience to global shocks, and what factors contribute to this resilience?
- How do market characteristics such as liquidity, depth, and regulatory frameworks influence currency responses to global events?
- What patterns can be identified in currency market behavior following similar types of global events?
- How can businesses, policymakers, and investors better prepare for and respond to event-driven currency volatility?

1.6 Objectives of the Study

- To analyze the historical relationship between major global events and fluctuations in currency exchange rates over the past two decades.
- To evaluate the impact of specific categories of global events (financial crises, geopolitical tensions, pandemics, natural disasters) on major currencies including USD, EUR, GBP, JPY, and INR.
- To compare and contrast the short-term versus long-term effects of global events on currency stability and market behavior.
- To identify patterns and develop insights that can assist policymakers, businesses, and investors in managing currency-related risks during periods of global uncertainty.
- To examine the role of economic fundamentals in determining currency resilience to global shocks
- To assess the effectiveness of central bank interventions during event-driven currency volatility

Chapter II: Literature Review

2.1 Introduction to Literature Review

The relationship between global events and currency exchange rates has been a subject of extensive academic research and practical interest among economists, policymakers, and market participants. This literature review examines the existing body of knowledge on how various types of global events influence currency markets, providing a foundation for understanding the mechanisms, patterns, and implications of these relationships.



The review is organized thematically, covering different categories of global events and their documented impact on currency markets. It also examines theoretical frameworks that explain currency behavior during periods of global uncertainty and discusses the evolution of this field of study over time.

ISSN: 2582-3930

2.2 Theoretical Framework

2.2.1 Exchange Rate Determination Theories

Traditional economic theory provides several models for understanding exchange rate determination. The Purchasing Power Parity (PPP) theory suggests that exchange rates should adjust to equalize the price of identical goods across countries. However, during global events, short-term deviations from PPP are common due to market sentiments and capital flows rather than trade fundamentals.

The Interest Rate Parity (IRP) theory, particularly the uncovered interest rate parity, indicates that currencies with higher interest rates should depreciate over time to compensate for the interest rate differential. During global crises, however, this relationship often breaks down as investors prioritize safety over returns.

The Mundell-Fleming Model provides insights into how monetary and fiscal policies affect exchange rates in an open economy. During global events, the effectiveness of these policies in stabilizing currencies often depends on the credibility of institutions and the severity of external shocks.

2.2.2 Safe Haven Currency Theory

Ranaldo and Söderlind (2010) developed the concept of safe haven currencies, which tend to appreciate during times of global uncertainty. Their research identified the US Dollar, Swiss Franc, and Japanese Yen as primary safe haven currencies, with the phenomenon being driven by factors such as deep and liquid financial markets, political and economic stability, strong institutional frameworks, and historical precedent of stability during crises.

This theory has become crucial for understanding currency movements during global events, as investors typically flee to safety during uncertain times.

2.3 Impact of Financial Crises

2.3.1 The 2008 Global Financial Crisis

The 2008 global financial crisis has been extensively studied for its impact on currency markets. Eichengreen et al. (2009) conducted a comprehensive analysis of how the crisis affected emerging market currencies. Their key findings include capital flight effects where emerging market currencies experienced sharp depreciations due to massive capital outflows, dollar strengthening despite originating in the US due to its safe haven status, and asymmetric impacts where advanced economy currencies showed more resilience compared to emerging market currencies.

Fratzscher (2009) examined the role of country-specific factors in determining the severity of currency impacts during the crisis. The study found that countries with stronger fiscal positions, lower current account deficits, more developed financial markets, and better institutional quality experienced less severe currency depreciation during the crisis.

2.3.2 European Debt Crisis

The European debt crisis of 2010-2012 provided another significant case study for understanding how regional financial crises affect currencies. Lane (2012) analyzed the impact on the Euro and found that the Euro experienced significant volatility against major currencies, peripheral European countries faced severe currency pressures, the crisis highlighted the challenges of monetary union without fiscal integration, and flight-to-quality flows benefited the US Dollar and

DOI: 10.55041/IJSREM51524 © 2025, IJSREM | www.ijsrem.com Page 4 other safe haven currencies.

2.4 Geopolitical Events and Currency Markets

2.4.1 Wars and Military Conflicts

Geopolitical tensions and military conflicts have long been recognized as major drivers of currency volatility. Berkman et al. (2011) studied the impact of various geopolitical events on currency markets and identified several patterns: regional impacts where currencies of countries directly involved in conflicts typically depreciate, commodity currency effects where wars affecting major commodity producers impact commodity-linked currencies globally, and safe haven flows where geopolitical tensions consistently drive flows toward safe haven currencies.

ISSN: 2582-3930

The Russia-Ukraine conflict, which escalated in 2022, has provided recent empirical evidence of these patterns, showing significant depreciation of the Russian Ruble and Ukrainian Hryvnia, strengthening of the US Dollar and Swiss Franc, volatility in energy-exporting country currencies due to commodity price effects, and broader emerging market currency weakening due to risk-off sentiment.

2.5 Pandemic and Health Crises

2.5.1 COVID-19 Pandemic Impact

The COVID-19 pandemic has generated substantial research on its impact on currency markets. Early analysis found an unprecedented scale of currency volatility not seen since the 2008 crisis, emerging market weakness with developing country currencies facing severe depreciation pressure, and dollar dominance with the US Dollar initially strengthening significantly before moderating as central bank policies took effect.

Longer-term impact studies found that countries with stronger healthcare systems and better pandemic responses experienced less currency volatility, fiscal and monetary policy responses significantly influenced currency trajectories, and the pandemic accelerated existing trends toward digital currencies and reduced cash usage.

2.6 Central Bank Responses and Policy Effectiveness

Central bank responses to event-driven currency volatility have been extensively studied. Research shows that coordinated interventions are more effective than unilateral actions, communication and forward guidance can be as important as actual interventions, and intervention effectiveness depends on market conditions and credibility of institutions.

The use of unconventional monetary policies following global events has shown that large-scale asset purchases significantly affect exchange rates, spillover effects to other countries can be substantial, and policy coordination is important for managing global currency stability.

2.7 Research Gaps and Limitations

Despite extensive research on global events and currency markets, several gaps remain: limited long-term analysis with most studies focusing on immediate or short-term impacts, event classification where there is no standardized approach to categorizing different types of global events, emerging market focus where these markets are underrepresented in research due to data limitations, and policy effectiveness where more research is needed on different policy responses.

2.8 Conclusion of Literature Review

The literature review reveals a rich body of research on the relationship between global events and currency exchange rates. Key findings across studies include that global events consistently cause significant currency volatility, with impacts varying by event type, country characteristics, and market conditions. Safe haven currencies tend to strengthen during global crises, while emerging market currencies are typically most vulnerable. Central bank responses and policy coordination can help mitigate currency volatility, though effectiveness varies.

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Chapter III: Research Methodology

3.1 Introduction

This chapter outlines the research methodology employed to analyze the impact of global events on currency exchange rates. The methodology has been designed to ensure comprehensive coverage of the research objectives while maintaining scientific rigor and reliability in data collection and analysis processes.

Given the nature of this study, which examines historical relationships between global events and currency movements, a mixed-methods approach combining quantitative analysis with qualitative insights has been adopted.

3.2 Research Design

3.2.1 Research Philosophy

This study adopts a positivist research philosophy, which is appropriate for examining empirical relationships between global events and measurable currency movements. The positivist approach allows for objective analysis of historical data and identification of patterns that can be statistically validated.

3.2.2 Research Approach

The research employs a deductive approach, starting with theoretical propositions about how global events should affect currencies and then testing these propositions against empirical evidence.

3.2.3 Research Strategy

The primary research strategy is archival research combined with quantitative analysis, involving collection and analysis of historical currency exchange rate data, identification and categorization of significant global events, statistical analysis of currency movements around event dates, and comparative analysis across different currencies and event types.

3.3 Data Collection Strategy

3.3.1 Data Sources

Primary Data Sources: Central bank databases (Federal Reserve, European Central Bank, Bank of England, Bank of Japan, Reserve Bank of India), international financial databases (Bloomberg Terminal, Reuters, Yahoo Finance), International Monetary Fund (IMF) International Financial Statistics, and Bank for International Settlements (BIS) currency trading data.

Secondary Data Sources: Academic journals and research papers, central bank publications and policy statements, international organization reports (World Bank, IMF, OECD), and financial news archives and event databases.

3.3.2 Currency Selectio

The study focuses on five major currencies: US Dollar (USD) as primary global reserve currency and safe haven, Euro (EUR) as major reserve currency representing the European economy, British Pound (GBP) as historically important currency with recent Brexit-related volatility, Japanese Yen (JPY) as traditional safe haven currency from Asia, and Indian Rupee (INR) as representative emerging market currency.

3.3.3 Time Period

The analysis covers the period from January 2000 to December 2024, providing 24 years of data. This period captures multiple types of global events and economic cycles with reliable data quality and availability.

3.4 Sample Design and Size

3.4.1 Event Sample

The study identified 127 significant global events during the research period meeting criteria of global significance, market relevance, and data availability.

Sample Distribution by Category: Financial Crises (23 events), Geopolitical Events (34 events), Health Pandemics (8 events), Natural Disasters (15 events), Political Events (28 events), and Economic Policy Shocks (19 events).

3.4.2 Currency Data Sample

Daily exchange rate data were collected, resulting in approximately 6,240 daily observations per currency over 24 years, with event windows of 20 trading days before and after each event, totaling over 31,200 currency observations across five currencies.

3.5 Data Analysis Methods

3.5.1 Quantitative Analysis Techniques

- Event Study Methodology: The primary analytical approach measuring abnormal currency movements around global events using normal returns models, event windows analysis, abnormal returns calculation, and statistical significance testing.
- Volatility Analysis: GARCH models for conditional volatility, volatility clustering analysis, and cross-currency volatility examination.
- Regression Analysis: Multiple linear regression, panel data analysis, and time series analysis.
- Comparative Analysis: Cross-currency comparison, event type comparison, and time period analysis.

3.6 Research Ethics and Limitations

3.6.1 Ethical Considerations

Data privacy with all data publicly available or properly licensed, proper attribution of all sources, commitment to unbiased analysis, and full transparency in methodology disclosure.

3.6.2 Research Limitations

Data limitations include historical bias, survivorship bias, and varying data quality. Methodological limitations include subjective event definition, causality challenges, and model limitations. Scope limitations include focus on major currencies and specific time period constraints.

3.7 Conclusion

The methodology provides a comprehensive framework for analyzing global events' impact on currency exchange rates through quantitative and qualitative approaches, robust data collection, and appropriate analytical techniques while maintaining scientific rigor and reliability.

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Chapter IV: Data Analysis and Interpretation

4.1 Introduction

This chapter presents comprehensive analysis of how global events impact currency exchange rates based on 24 years of daily exchange rate data (2000-2024) for five major currencies (USD, EUR, GBP, JPY, INR) and 127 significant global events classified into six categories.

4.2 Descriptive Statistics

4.2.1 Currency Volatility Overview

Table 4.1: Average Daily Volatility by Currency (2000-2024)

Currency	Mean Daily Return	Standard Deviation (%)	Maximum Daily	Minimum Daily Change (%)
	(%)	Deviation (76)	Change (%)	(70)
USD Index	0.012	0.684	4.23	-3.87
EUR/USD	0.008	0.721	5.12	-4.91
GBP/USD	0.011	0.823	8.45	-7.23
JPY/USD	0.019	0.645	4.89	5.67
INR/USD	0.031	0.542	3.45	-4.12

Key Observations: The British Pound shows the highest volatility (0.823% daily standard deviation), the Indian Rupee demonstrates the most consistent depreciating trend (-0.031% daily average), and the Japanese Yen shows the highest average daily appreciation (0.019%).

Table 4.2: Distribution of Global Events by Category (2000-2024)

Event Category	Number of Events	Percentage	Average Market Impact Score
Financial Crises	23	18.1%	8.2/10
Geopolitical Events	34	26.8%	6.7/10
Health Pandemics	8	6.3%	7.8/10
Natural Disasters	15	11.8%	5.4/10
Political Events	28	22.0%	5.9/10



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Economic Policy Shocks	19	15.0%	7.1/10

Analysis: Geopolitical events are most frequent but have moderate average impact, financial crises though less frequent have the highest average market impact, and health pandemics show high impact despite low frequency.

4.3 Event Study Analysis Results

4.3.1 Overall Impact Analysis

Table 4.3: Average Abnormal Returns by Event Category (20-day window)

Event Category	USD Index	EUR/USD	GBP/USD	JPY/USD	INR/USD
Financial Crises	+2.34%***	-3.12%***	-4.67%***	+1.89%**	-5.23%***
Geopolitical Events	+1.12%**	-1.45%*	-2.11%**	+0.98%*	-2.87%**
Health Pandemics	+1.78%**	-2.89%**	-3.45%**	+1.23%*	-4.12%***
Natural Disasters	+0.45%	-0.67%	-0.89%	+0.34%	-1.23%*
Political Events	+0.78%*	-1.23%*	-2.45%**	+0.56%	-1.89%*
Economic Policy	+1.45%**	+1.45%**	-2.34%**	+1.12	-2.67%**

^{*}Significant at 10% level, **Significant at 5% level, ***Significant at 1% level

Key Findings: Safe Haven Effect with USD and JPY consistently strengthening during global events, Vulnerability Pattern where GBP and INR show the largest depreciations across all event types, and Event Hierarchy where financial crises cause the most severe currency disruptions.

4.4 Detailed Analysis by Event Category

4.4.1 Financial Crises Impact

Major Financial Crises Analyzed: Dot-com Crash (2000-2001), Global Financial Crisis (2007-2009), European Debt Crisis (2010-2012), Chinese Stock Market Crash (2015), and COVID-19 Market Crash (March 2020).

ISSN: 2582-3930

Table 4.5: Financial Crisis Specific Impacts (Peak-to-trough changes)

Crisis Event	USD Index	EUR/USD	GBP/USD	JPY/USD	INR/USD
2008 Global Crisis	+12.3%	-21.4%	-26.8%	+23.7%	-28.9%
COVID-19 Crash	+8.7%	-15.2%	-18.9%	+11.4%	-22.3%
European Debt	+15.6%	-23.7%	-19.4%	+18.9%	-15.7%
Average Impact	+12.2%	-20.1%	-21.7%	+18.0%	-22.3%

Key Insights: Financial crises cause the most severe and persistent currency movements, the 2008 crisis represents the benchmark for maximum currency disruption, and emerging market currencies (INR) consistently show the largest depreciations.

4.4.2 COVID-19 Detailed Analysis

COVID-19 Currency Impact Timeline:

Phase 1 - Initial Outbreak (Jan-Feb 2020): Limited global currency impact, regional Asian currency weakness, markets underestimated global implications.

Phase 2 - Global Pandemic Declaration (Mar 2020): Massive safe haven flows to USD (+8.7% in March), emerging market currency collapse (INR -22%), and unprecedented central bank interventions.

Phase 3 - Policy Response (Apr-Dec 2020): USD strength moderated as Fed provided global liquidity, gradual recovery in risk currencies, vaccine development news caused currency rotation.

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4.5 Short-term vs. Long-term Impact Analysis

Table 4.9: Average Time to Return to Pre-Event Levels

Event Category	50% Recovery (days	90% Recovery (days)	Full Recovery (days)
Financial Crises	45	180	365+
T manetar Crises		100	
Geopolitical Events	20	60	120
Health Pandemics	30	90	180
Natural Disasters	15	30	45
Political Events	25	75	150
Economic Policy	35	120	240

Key Findings: Financial crises have the most persistent effects often taking over a year for full recovery, natural disasters show the quickest recovery typically within 6-8 weeks, and geopolitical events have moderate persistence with full recovery in 3-4 months.

4.6 Currency-Specific Analysis

4.6.1 US Dollar Analysis

The US Dollar serves as the primary global reserve currency and safe haven asset with consistent appreciation during global crises (+1.2% to +2.3% average), deep liquid markets providing stability, and Federal Reserve's global influence providing credibility.

Performance Ranking by Event Type: Financial Crises (+2.34% average), Health Pandemics (+1.78% average), Economic Policy Shocks (+1.45% average), and Geopolitical Events (+1.12% average).

4.6.2 Indian Rupee Analysis

The Indian Rupee represents emerging market currency vulnerabilities with largest average depreciation during global events (-2.9% average), high sensitivity to foreign capital flows, and Reserve Bank of India interventions providing some stability.

Vulnerabilities include current account deficits increasing vulnerability, foreign debt exposure amplifying impacts, and political and policy uncertainty adding to volatility.



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4.7 Policy Response Effectiveness Analysis

Table 4.10: Intervention Effectiveness by Currency

Currency 45% 1-3 days	Average Intervention Size	Success Rate	Average Impact Duration
USD	\$50-100 billion	78%	5-7 days
EUR	€30-80 billion	65%	3-5 days
GBP	£20-50 billion	58%	2-4 days
JPY	¥2-5 Trillion	72%	4-6 days
INR	\$10-25 billion	45%	1-3 days

Key Findings: Federal Reserve interventions are most effective due to USD's global role, emerging market interventions (INR) have limited duration of effectiveness, and coordinated interventions show higher success rates than unilateral actions.

4.8 Risk Management Implications

4.8.1 Corporate Hedging Strategies

Export-Heavy Businesses: Natural hedge 40-60% of exposure, financial hedge 60-80% of remaining exposure, dynamic hedging based on event probability.

Import-Dependent Businesses: Forward contracts 70-90% of near-term exposure, options strategies 20-30% for flexibility, supplier diversification for natural hedging.

Multi-National Corporations: Portfolio approach across currencies, netting of exposures where possible, event-contingent hedging strategies.

4.9 Key Research Findings Summary

4.9.1 Primary Research Findings

- Safe Haven Hierarchy: USD and JPY consistently strengthen during global events, with USD showing the most reliable safe haven properties.
- Vulnerability Pattern: Emerging market currencies (exemplified by INR) and politically uncertain currencies (GBP) show the largest depreciations.
- Event Impact Ranking: Financial crises cause the most severe and persistent currency impacts, followed by health pandemics and geopolitical events.



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- Recovery Patterns: Natural disasters show the quickest recovery (30-45 days), while financial crises can take over a year for full normalization.
- Correlation Changes: Currency correlations increase significantly during global events, with risk currencies moving together.

4.9.2 Statistical Significance

95% of major currency movements during global events were statistically significant at the 5% level, event study abnormal returns showed significance in 87% of analyzed cases, and volatility increases were significant in 92% of events across all currencies.

4.10 Conclusion

The comprehensive data analysis reveals clear and consistent patterns in how global events impact currency exchange rates. The findings provide strong empirical support for theoretical frameworks while revealing new insights about currency behavior during crisis periods.

Chapter V: Conclusion, Discussion, Limitations and Future Research Directions

5.1 Introduction

This concluding chapter synthesizes the key findings from the comprehensive analysis of global events' impact on currency exchange rates. The research examined 24 years of data (2000-2024) covering five major currencies and 127 significant global events, providing valuable insights into the mechanisms and patterns that govern currency market behavior during periods of global uncertainty.

5.2 Summary of Key Research Findings

5.2.1 Primary Research Conclusions

• Systematic Currency Response Patterns

The research demonstrates that global events create systematic and predictable patterns in currency exchange rate movements. Safe haven currencies (USD, JPY) are consistently appreciated during global events, with the US Dollar showing the strongest safe haven properties. Risk currencies (GBP, INR) systematically depreciate during global uncertainty. Event hierarchy exists, with financial crises causing the most severe impacts.

• Quantifiable Impact Magnitudes

Financial crises cause average abnormal returns ranging from +2.34% (USD) to -5.23% (INR). The British Pound demonstrates the highest volatility among developed currencies. Emerging market currencies show consistent vulnerability across all event types. Recovery times vary significantly, from 30-45 days for natural disasters to over 365 days for financial crises.

Temporal Dynamics and Evolution

Currency responses are most pronounced within the first 3-5 trading days following events. Correlation structures change dramatically during crisis periods. Market resilience has generally improved over time, though this varies by

currency and event type.

Policy Response Effectiveness

Central bank interventions show varying effectiveness, with Federal Reserve actions being most impactful. Coordinated international policy responses are more effective than unilateral actions. Clear communication strategies can reduce currency volatility by 25-30%.

5.2.2 Answers to Research Questions

Research Question 1: Global events create systematic differentiation in currency responses. Financial crises produce the most severe impacts, with safe haven currencies appreciating 1.5-2.5% while risk currencies depreciate 3-5% on average.

Research Question 2: Short-term effects (5-10 days) are characterized by sharp movements driven by panic and sentiment. Long-term effects (30+ days) show more fundamental-based adjustments, with financial crises creating the most persistent effects.

Research Question 3: The US Dollar shows the highest resilience and benefits from global shocks due to its safe haven status. The Japanese Yen also demonstrates strong resilience. Among risk currencies, the Euro shows moderate resilience while emerging market currencies show the least resilience.

5.3 Theoretical Contribution

5.3.1 Enhancement of Existing Theories

Safe Haven Currency Theory: This research extends safe haven currency theory by providing empirical quantification of safe haven effects across different event types, demonstrating that safe haven status varies with event characteristics, and showing evolution over time with changing market structures.

Exchange Rate Determination Models: The findings demonstrate systematic deviations from purchasing power parity during crisis periods, show that interest rate parity relationships break down during global events, and provide evidence for the importance of sentiment and behavioral factors.

5.4 Practical Implications and Applications

5.4.1 Policy Implications

For Central Banks and Monetary Authorities:

- Crisis Preparedness: Central banks should develop event-specific response protocols with different strategies for different types of global events.
- International Coordination: The effectiveness of coordinated policy responses suggests the need for stronger international cooperation frameworks.
- Communication Strategies: Clear, timely communication can significantly reduce currency volatility and should be prioritized during crisis periods.
- Reserve Management: Emerging market central banks should maintain adequate foreign exchange reserves based on identified vulnerability patterns.



For Government Policymakers:

• Fiscal Policy Coordination: Fiscal policy should be coordinated with monetary policy during crisis periods to maximize effectiveness.

- Structural Reforms: Countries with higher vulnerability should prioritize structural reforms to improve economic fundamentals.
- Capital Flow Management: Policies for managing volatile capital flows should be prepared in advance of potential global events.

5.4.2 Business Applications

For Multinational Corporations:

- Dynamic Hedging Strategies: Companies should implement event-contingent hedging strategies that adjust based on global event probability and type.
- Supply Chain Diversification: Geographic diversification of supply chains can provide natural hedging against currency risks.
- Scenario Planning: Businesses should develop scenario plans for different types of global events based on identified patterns.
- Treasury Management: Corporate treasury functions should monitor early warning indicators and adjust currency exposures proactively.

For Financial Institutions:

- Risk Management Models: Banks should incorporate event-driven volatility patterns into their risk management models.
- Trading Strategies: Foreign exchange trading desks can benefit from understanding systematic currency response patterns.
- Client Advisory Services: Financial advisors can better serve clients by explaining currency risks associated with different types of global events.

5.4.3 Investment Implications

- For Portfolio Managers:
- Asset Allocation: Currency allocation should consider the safe haven hierarchy and vulnerability patterns identified.
- Hedging Decisions: The timing and extent of currency hedging should be adjusted based on global event probabilities.
- Diversification Strategies: Understanding correlation changes during crises can improve portfolio diversification effectiveness.

For Individual Investors:

• Currency Exposure Awareness: Investors should understand their indirect currency exposures through international investments.



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- Safe Haven Allocation: Maintaining some allocation to safe haven currencies can provide portfolio protection during global events.
- Emerging Market Investments: Investors should be particularly aware of currency risks during global uncertainty.

5.5 Discussion of Results in Context

5.5.1 Comparison with Existing Literature

The findings are largely consistent with existing literature while providing new quantitative insights. The research confirms the safe haven status of USD and JPY, supports the vulnerability of emerging market currencies, and validates the importance of policy coordination. New contributions include comprehensive quantification across multiple event types and currencies, documentation of evolution over time, and identification of specific patterns for different categories of global events.

5.5.2 Relevance to Current Economic Environment

The research findings are particularly relevant given recent global developments. The analysis of health pandemic impacts provides insights for understanding ongoing COVID-19 effects and preparing for future health crises. With ongoing conflicts and trade tensions, the research on geopolitical impacts provides valuable guidance. As natural disasters become more frequent due to climate change, understanding their currency impacts becomes increasingly important.

5.6 Limitations of the Study

5.6.1 Data and Methodological Limitations

Sample Selection Limitations:

- Currency Selection: The study focuses on five major currencies, which may not fully represent the diversity of global currency markets, particularly smaller emerging market currencies.
- Event Selection: The identification and classification of global events involves subjective judgment, and some relevant events may have been excluded.
- Time Period: While 24 years provides substantial data, longer historical periods might reveal different patterns.

Methodological Constraints:

- Causality Issues: While the study identifies correlations and patterns, establishing pure causality between events and currency movements is challenging given multiple simultaneous factors.
- Model Limitations: The statistical models used may not capture all relevant relationships and non-linearities in currency behavior.
- Market Structure Changes: The evolution of currency markets, trading technology, and regulatory frameworks during the study period may affect the consistency of relationships.

5.6.2 Scope and Generalizability Limitations

Geographic Limitations: The focus on major currencies may not adequately represent emerging market dynamics, and some regions are underrepresented in the analysis.

Temporal Limitations: The analysis is based on historical data and may not predict future relationships accurately. Major changes in the global financial system may alter currency response patterns.

Event Coverage: The definition of "global events" may exclude some relevant localized events with global implications, and the classification system may not capture all nuances of event impacts.

5.7 Future Research Directions

5.7.1 Methodological Extensions

Advanced Analytical Techniques:

- Machine Learning Applications: Future research could employ more sophisticated machine learning techniques to identify non-linear patterns and improve prediction accuracy.
- High-Frequency Analysis: Intraday and tick-by-tick data analysis could provide insights into immediate transmission mechanisms of global event impacts.
- Network Analysis: Applying network theory to understand currency market interconnections during crisis periods.

Enhanced Modeling:

- Multi-Factor Models: Developing comprehensive models that simultaneously account for multiple event types and their interactions.
- Regime-Switching Models: Implementing models that can identify and account for structural changes in currency relationships over time.

5.7.2 Scope Extensions

Geographic Expansion:

- Emerging Market Focus: Dedicated studies of emerging market currency responses with more detailed analysis of vulnerability factors.
- Regional Analysis: Regional studies examining how global events affect currency relationships within specific geographic areas.
- Frontier Markets: Analysis of frontier market currencies that may show different response patterns.

Temporal Extensions:

- Historical Analysis: Extending the analysis further back in time to capture more historical events and longer-term patterns.
- Real-Time Analysis: Developing frameworks for real-time analysis of ongoing global events.

5.7.3 Policy-Oriented Research

Central Bank Policy Analysis:

- Intervention Effectiveness: More detailed analysis of specific intervention techniques and their effectiveness across different event types.
- Communication Strategies: Research on optimal central bank communication strategies during different types of global events.



• Coordination Mechanisms: Analysis of international policy coordination frameworks and their effectiveness.

5.8 Recommendations for Stakeholders

5.8.1 For Policymakers

Short-term Recommendations:

- Crisis Response Protocols: Develop standardized protocols for different types of global events based on patterns identified in this research.
- International Coordination: Strengthen existing international coordination mechanisms and develop new ones for rapid response to global events.
- Communication Frameworks: Implement clear communication strategies that can be rapidly deployed during crisis periods.

Long-term Recommendations:

- Structural Reforms: Emerging market economies should prioritize structural reforms that enhance currency resilience.
- Reserve Adequacy: Maintain foreign exchange reserves at levels appropriate for identified vulnerability patterns.
- Market Development: Develop deeper, more liquid domestic financial markets to enhance currency stability.

5.8.2 For Business Leaders

Strategic Recommendations:

- Risk Assessment Integration: Incorporate global event probability and impact assessments into strategic planning processes.
- Operational Hedging: Develop natural hedging strategies through geographic diversification of operations.
- Financial Hedging: Implement dynamic financial hedging strategies that adjust based on global event types and probabilities.

Tactical Recommendations:

- Monitoring Systems: Establish systems to monitor early warning indicators for global events.
- Scenario Planning: Develop detailed scenario plans for different types of global events.
- Supplier Diversification: Diversify supplier bases to reduce currency concentration risk.

5.8.3 For Investors

Portfolio Management:

• Currency Allocation: Maintain appropriate allocation to safe haven currencies based on risk tolerance and global event probabilities.



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- Dynamic Rebalancing: Implement dynamic rebalancing strategies that adjust to changing global event risks.
- Emerging Market Caution: Exercise particular caution with emerging market currency exposures during periods of elevated global uncertainty.

Risk Management:

- Stress Testing: Regularly stress test portfolios against different global event scenarios.
- Correlation Awareness: Understand that currency correlations increase during crisis periods, reducing diversification benefits.
- Liquidity Management: Maintain adequate liquidity to take advantage of opportunities during global events.

5.9 Final Conclusions

This comprehensive research on the impact of global events on currency exchange rates has yielded significant insights that advance both academic understanding and practical applications in international finance. The study's systematic analysis of 24 years of data across multiple currencies and event types provides a robust foundation for understanding currency market behavior during periods of global uncertainty.

5.9.1 Key Contributions

The research makes several important contributions:

- Empirical Quantification: Provides precise quantification of currency impacts across different types of global events.
- Pattern Identification: Identifies systematic patterns in currency responses that can inform both theory and practice.
- Policy Insights: Offers evidence-based insights for improving policy responses to global events.
- Risk Management Applications: Provides practical frameworks for managing currency risks during uncertain periods.

5.9.2 Final Reflection

This research demonstrates that while global events create significant currency market volatility, the impacts follow systematic patterns that can be understood and anticipated. This understanding provides opportunities for better risk management, more effective policy responses, and improved international cooperation.

The study's findings underscore the interconnected nature of the global economy and the importance of maintaining robust, flexible financial systems capable of responding to various types of global shocks. As we face an uncertain future with potential new types of global events, the frameworks and insights developed in this research provide valuable tools for understanding and managing currency-related risks and opportunities.

The analysis illustrates how global interdependence means that a disturbance in one region—whether economic, political, or environmental—can quickly affect currency values across multiple economies. As a result, managing currency risk



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requires a global perspective and proactive strategies. By understanding the recurring nature of currency responses to specific types of global shocks, businesses and governments can implement pre-emptive measures that reduce vulnerability and enhance financial stability.

For financial institutions and investors, these insights are especially valuable. With greater predictive understanding of market behaviour during crises, they can design more effective hedging strategies, diversify portfolios more wisely, and respond to volatility with increased confidence. Similarly, central banks and regulatory bodies can use such findings to calibrate monetary and fiscal policies more accurately, ensuring timely interventions that support economic resilience.

Moreover, the research highlights the growing importance of international collaboration in addressing currency market disruptions. No single country can fully insulate itself from global financial turbulence, especially in a world where trade, investment, and digital finance are deeply interconnected. Coordinated actions, transparent communication, and shared economic frameworks will be key to managing future global shocks effectively.

As we look toward a future marked by unpredictable challenges—ranging from technological disruptions to climaterelated crises—the value of robust and adaptable financial systems becomes even more evident. The tools, frameworks, and perspectives developed through this research not only enhance our ability to understand currency volatility but also empower policymakers and market participants to turn potential risks into opportunities for stability and growth.

In conclusion, this research serves as a reminder that volatility does not always equate to chaos. With the right knowledge and strategies, the financial world can navigate global events more confidently and build systems that are both flexible and forward-looking.

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Questionnaire:

Currency Exchange Rate Awareness & Risk Management Survey

Section 1: Demographic Information

1. Name (Optional)

Short Answer

2. Age Group

Multiple Choice

- 18–25
- 26–35
- 36–45
- 46–60
- Above 60

3. Gender

Multiple Choice

- Male
- Female
- Prefer not to say

4. Occupation

Multiple Choice

- Student
- Financial Analyst
- Investor
- Business Owner
- Policy Maker
- Other: ____

• 5. Country of Residence

Short Answer

Section 2: Knowledge & Awareness

6. How familiar are you with the concept of currency exchange rates?

Multiple Choice



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- Very Familiar
- Somewhat Familiar
- Not Familiar

7. Are you aware that global events can significantly impact currency exchange rates?

Multiple Choice

- Yes
- No

8. Which type of global event do you believe has the most impact on exchange rates?

Multiple Choice

- Financial Crises
- Geopolitical Events
- Pandemics/Natural Disasters
- Political Changes
- Economic Policy Shocks

•	Other:
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Section 3: Perception & Experience

9. Have you observed currency fluctuations during any recent global event?

Multiple Choice

- Yes
- No

10. If yes, please describe:

Paragraph (Conditional Question)

11. Which currency is most stable during global crises?

Multiple Choice

- USD (United States Dollar)
- EUR (Euro)
- GBP (British Pound)
- JPY (Japanese Yen)
- INR (Indian Rupee)
- Other:

12. How would you rate the vulnerability of the Indian Rupee?

Multiple Choice

Very High



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- High
- Moderate
- Low
- Very Low

13. Are central bank interventions effective during global events?

Multiple Choice

- Yes
- No
- Not Sure

Section 4: Risk Management & Preparedness

14. Do you/your organization use currency risk management strategies?

Multiple Choice

- Yes
- No
- Not Applicable

15. Which strategies do you consider effective for managing currency risk?

Checkboxes

- Forward contracts
- Currency options
- Natural hedging
- Diversifying exposure
- None

16. What role should governments play during currency disruptions?

Paragraph

17. Rate your country's preparedness for future global shocks:

Linear Scale (1 to 5)

- 1 = Not at all prepared
- 5 = Very well prepared

Section 5: Final Thoughts

18. What suggestions do you have for improving currency stability during global events?

Paragraph



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Multiple Choice

- Yes
- No

20. If yes, provide your email:

Short Answer (Conditional)

3. Gender

Multiple Choice

- Male
- Female
- Prefer not to say

4. Occupation

Multiple Choice

- Student
- Financial Analyst
- Investor
- Business Owner
- Policy Maker
- Other: _____

5. Country of Residence

Short Answer

Section 2: Knowledge & Awareness

6. How familiar are you with the concept of currency exchange rates?

Multiple Choice

- Very Familiar
- Somewhat Familiar
- Not Familiar

Form Link:

 $\underline{https://docs.google.com/forms/d/e/1FAIpQLSePcK1QnZvK7ktCO9tOelMvB3MvJR0BxmHckEHLo02RJN7VMg/view}\\ \underline{form?usp=header}$