



**Cass Business School**  
CITY UNIVERSITY LONDON

# Overview of the Freight Derivatives Market

Nikos Nomikos  
Director MSc in Shipping, Trade &  
Finance

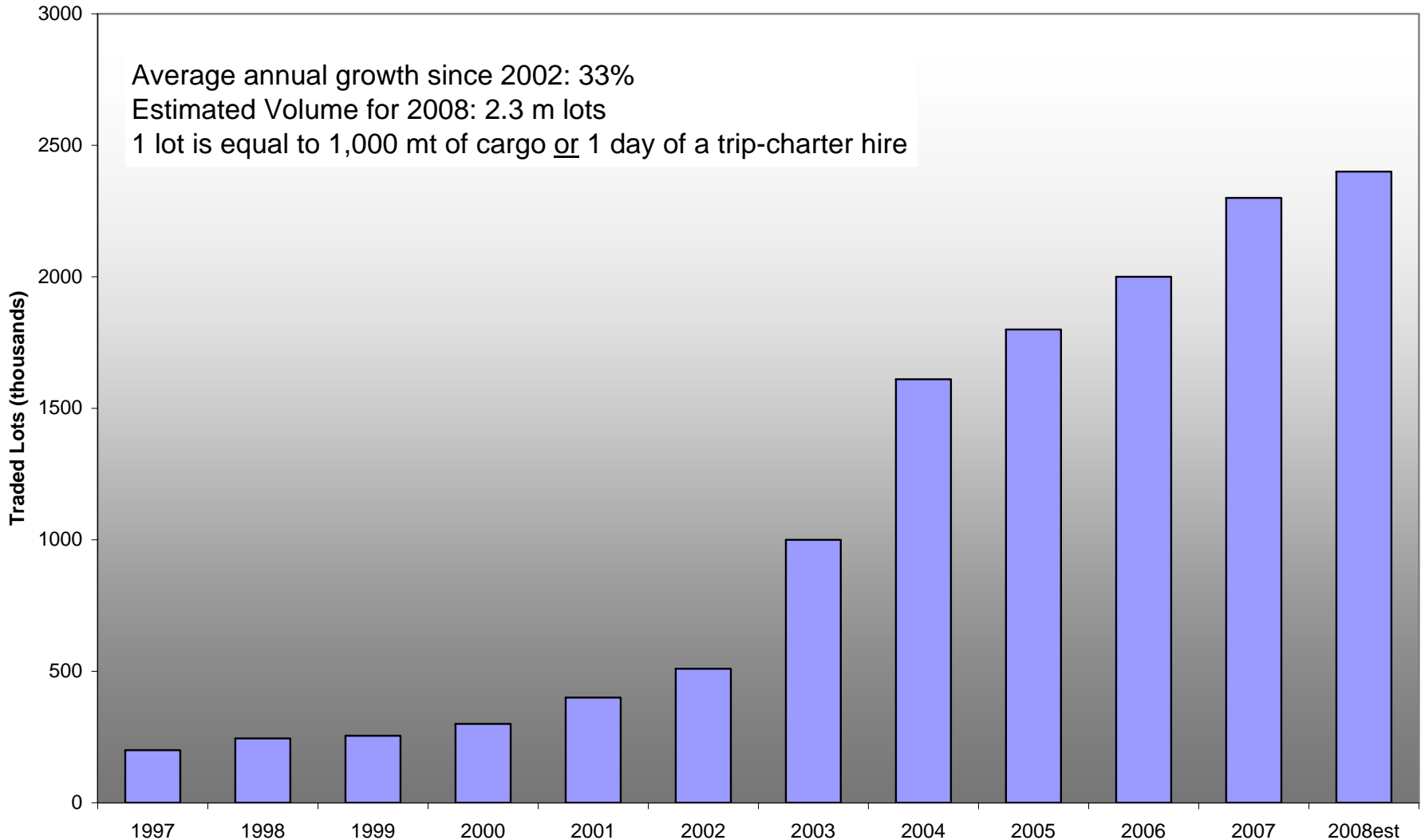


## Developments in the Freight Derivatives Markets

- Growth of the paper market on Shipping Freight
  - due to high levels of freight rates and high volatility
- Extensive use of risk management techniques and instruments
  - increase in trade sophistication
  - use of options in trading strategies
- Entrance of new players in the shipping markets
  - trading houses and energy companies as well as investment banks and hedge funds
- “Commoditization” of Shipping Freight



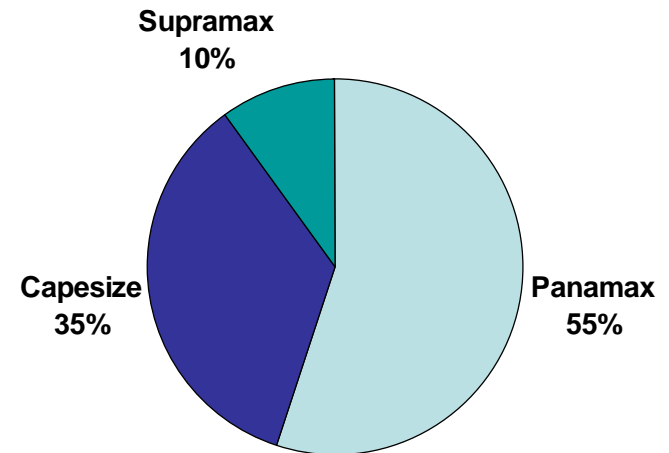
# Dry FFA Volume





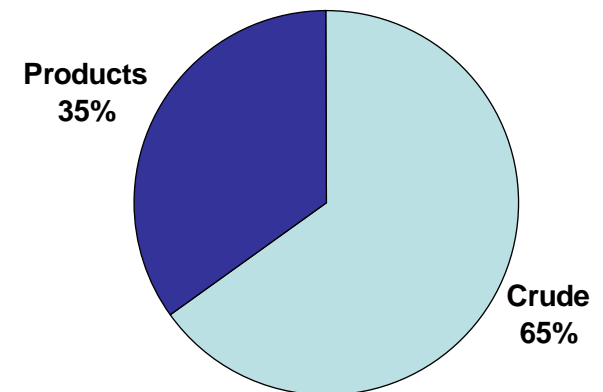
## ● Dry Market

- Volume for 2008 (est): 2.3 m lots
  - panamax and capesize volume corresponds to two times the underlying physical base of the fleet
- 60% of trades for 2008 are cleared
  - For Sep and Oct 08 75% of traded contracts were cleared reflecting the tighter credit conditions



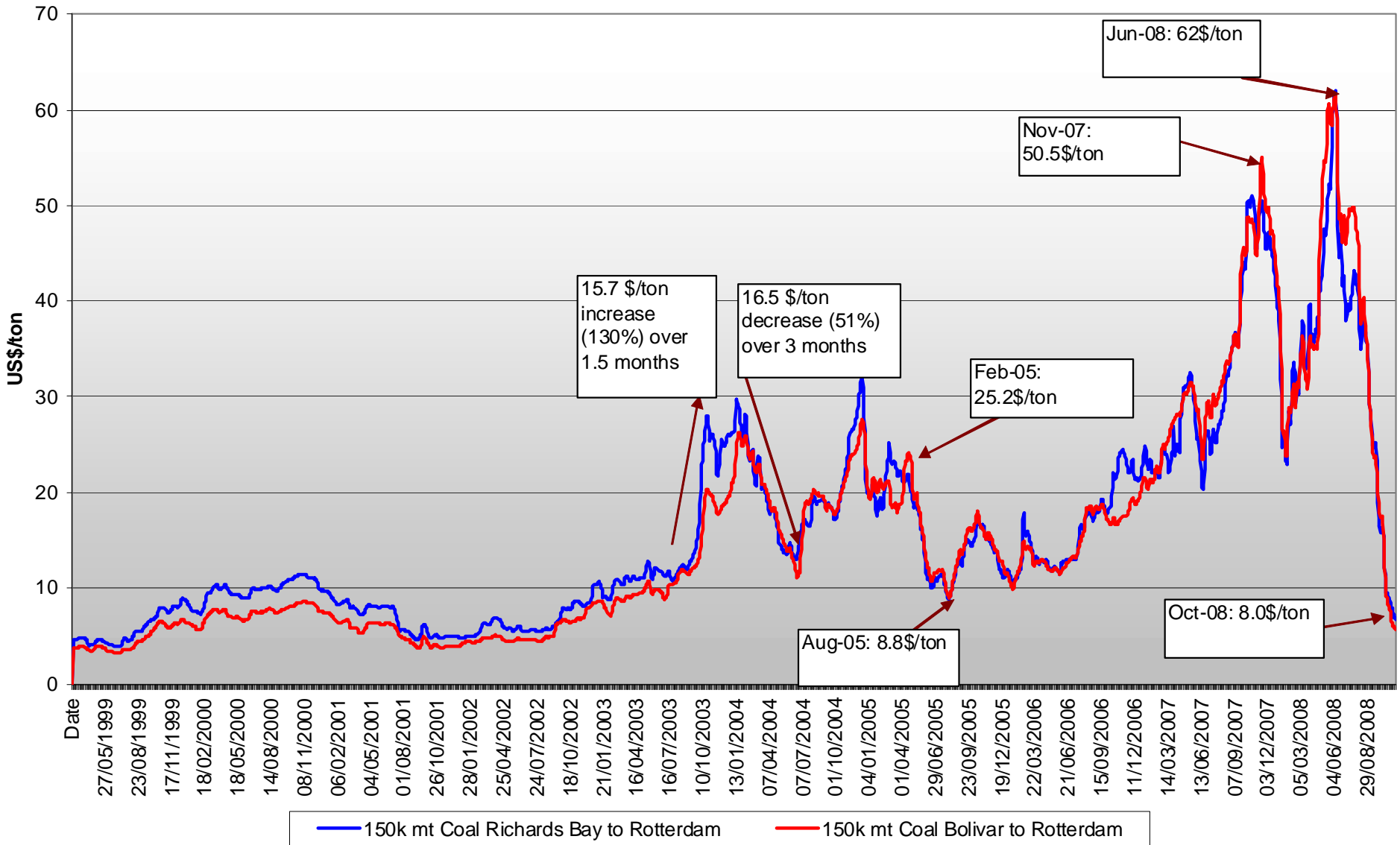
## ● Tanker Market

- Volume for 2008 (est): 0.450 m lots
  - 40% trades are on the ME Gulf – Japan VLCC Route (TD3)
- 75% of trades for 2008 are cleared



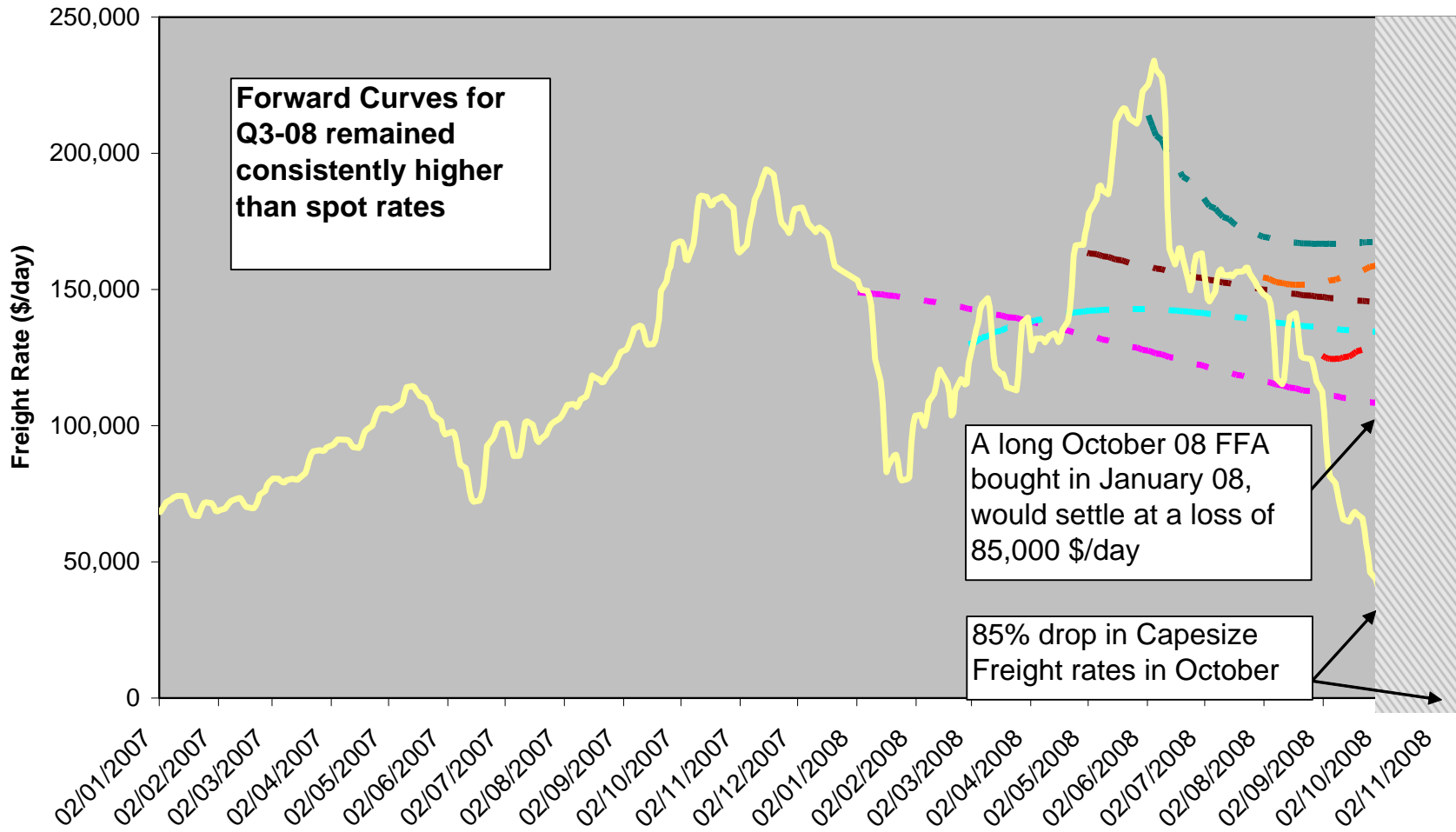


# Freight Market Volatility – Coal Routes

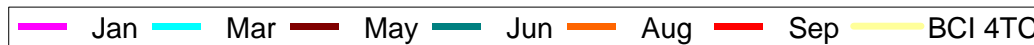




# Capesize TC Forward Curves – October Settlement



Source: Baltic Exchange



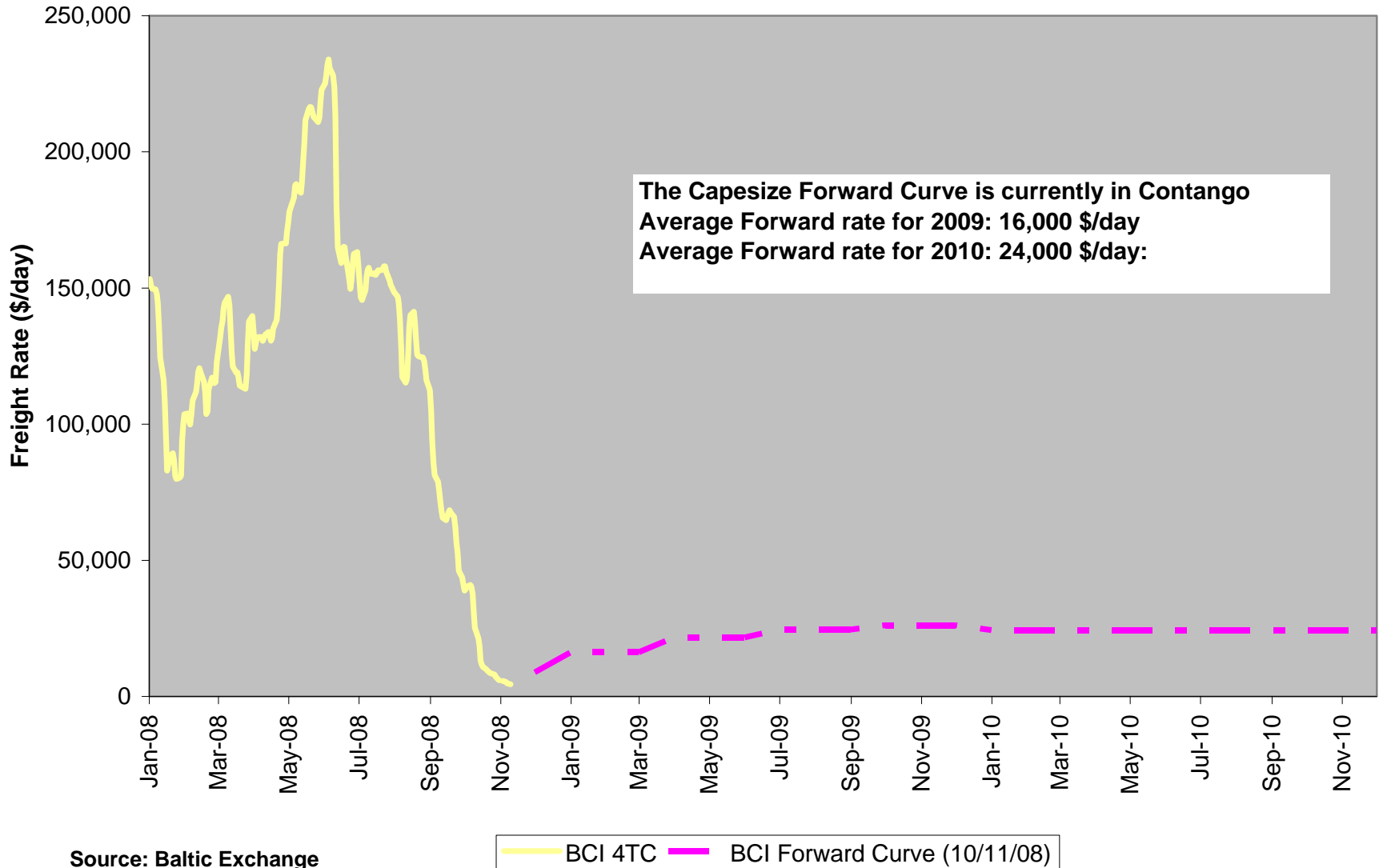


## FFAs – Market Volatility

- October 2008 witnessed the largest drop ever in dry freight rates
  - Rates in January 2008 were 20 times higher than the average October 2008 rate.
    - E.g. a long October 2008 FFA that was bought in January 2008, would settle at a loss of 85,000 \$/day or around \$2.7 million for the October settlement
- Market Volatility did not appear to have an impact on the settlement process due to:
  - large proportion of cleared trades
  - arrangement of emergency netting facilities
  - large outstanding positions for the rest of 2008
  - cash-flow mismatch between paper and physical.



# What Next?







## **FFAs – Current and Future Developments**

- The market has grown rapidly over the last five years
  - High volatility in the market has also attracted interest from investors outside shipping such as hedge funds
- Credit Risk and Clearing
  - More extensive use of clearing due to tighter credit requirements
  - However, initial margins and marking-to-market tie up capital
- Potential knock-on effects from defaults in the paper and/or physical markets
  - Closer links between the physical and the paper market
- Increase in trading interest in the options market
  - More trading opportunities for hedgers and investors



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