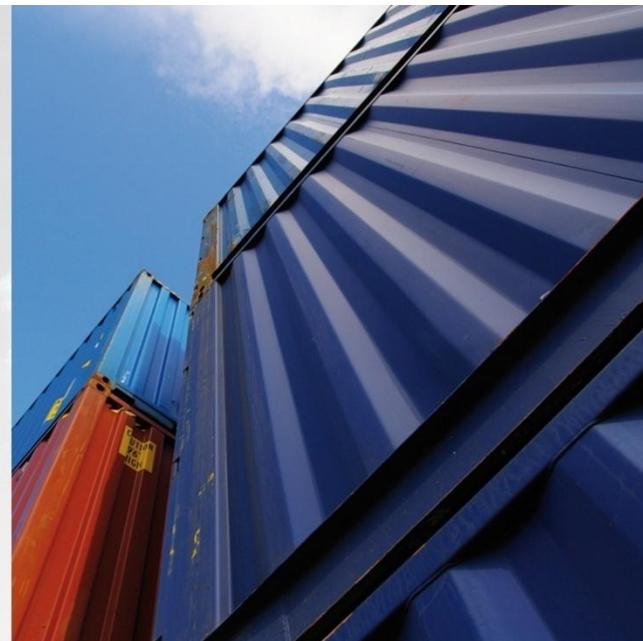
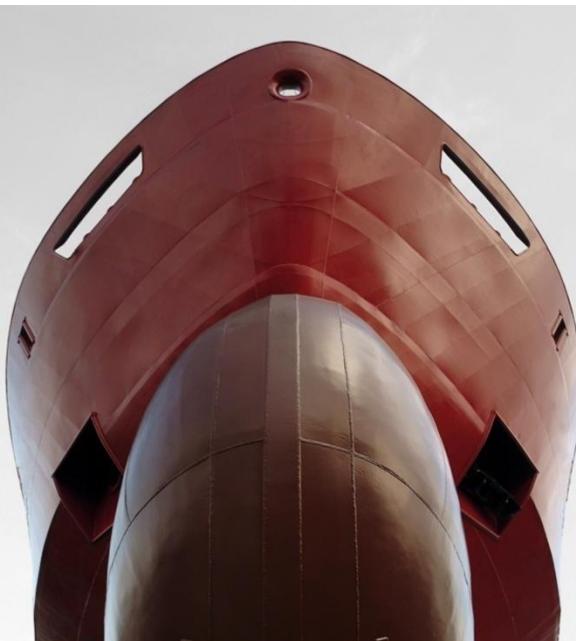


# The Source for Maritime Information and Insight





# A Greener Shade of Blue

Christopher Pålsson  
Director  
IHS Fairplay



# 20 minutes of What's



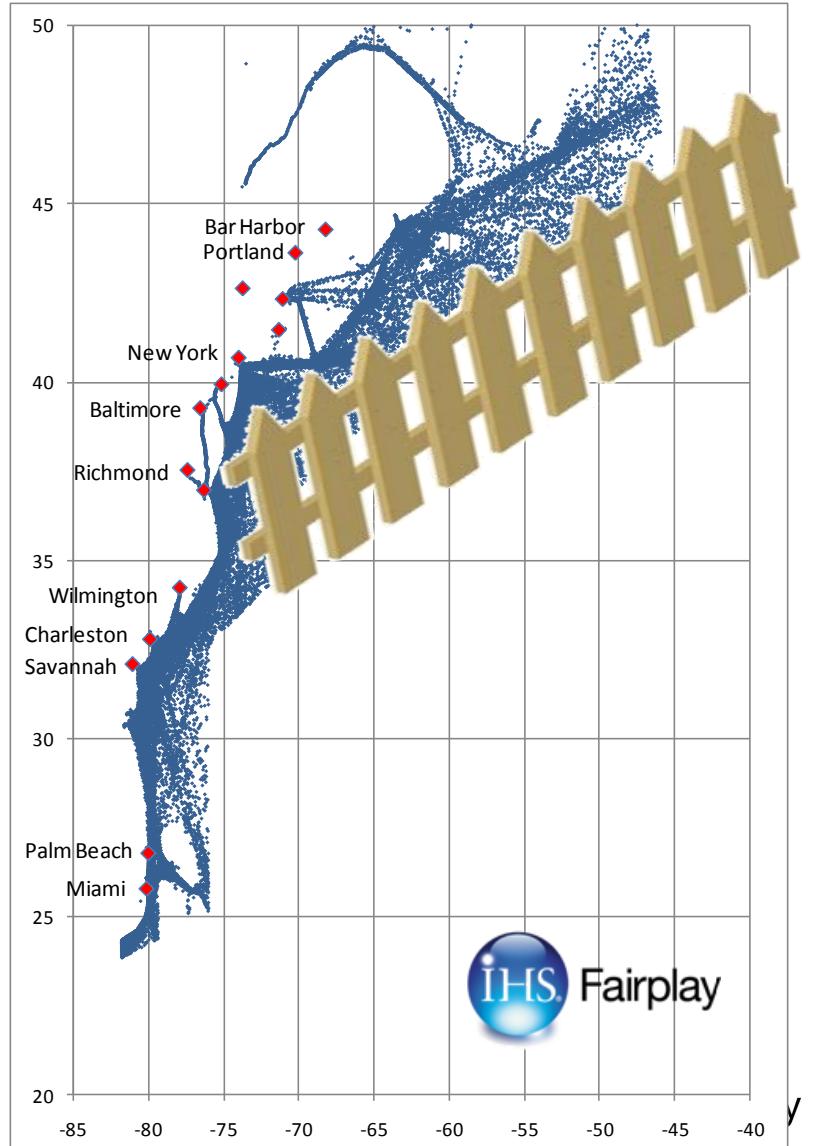
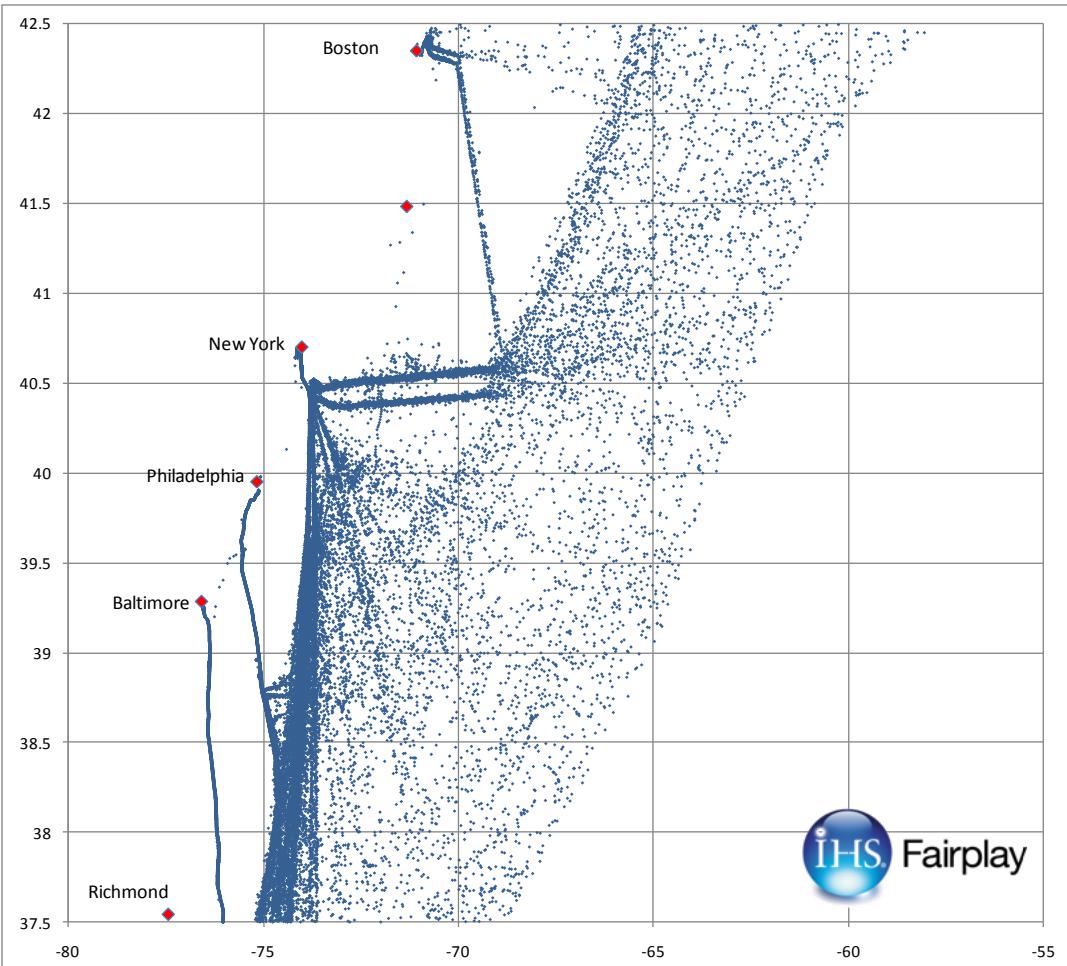
- What's
  - Going On?
  - Possible?
  - Going to Happen?



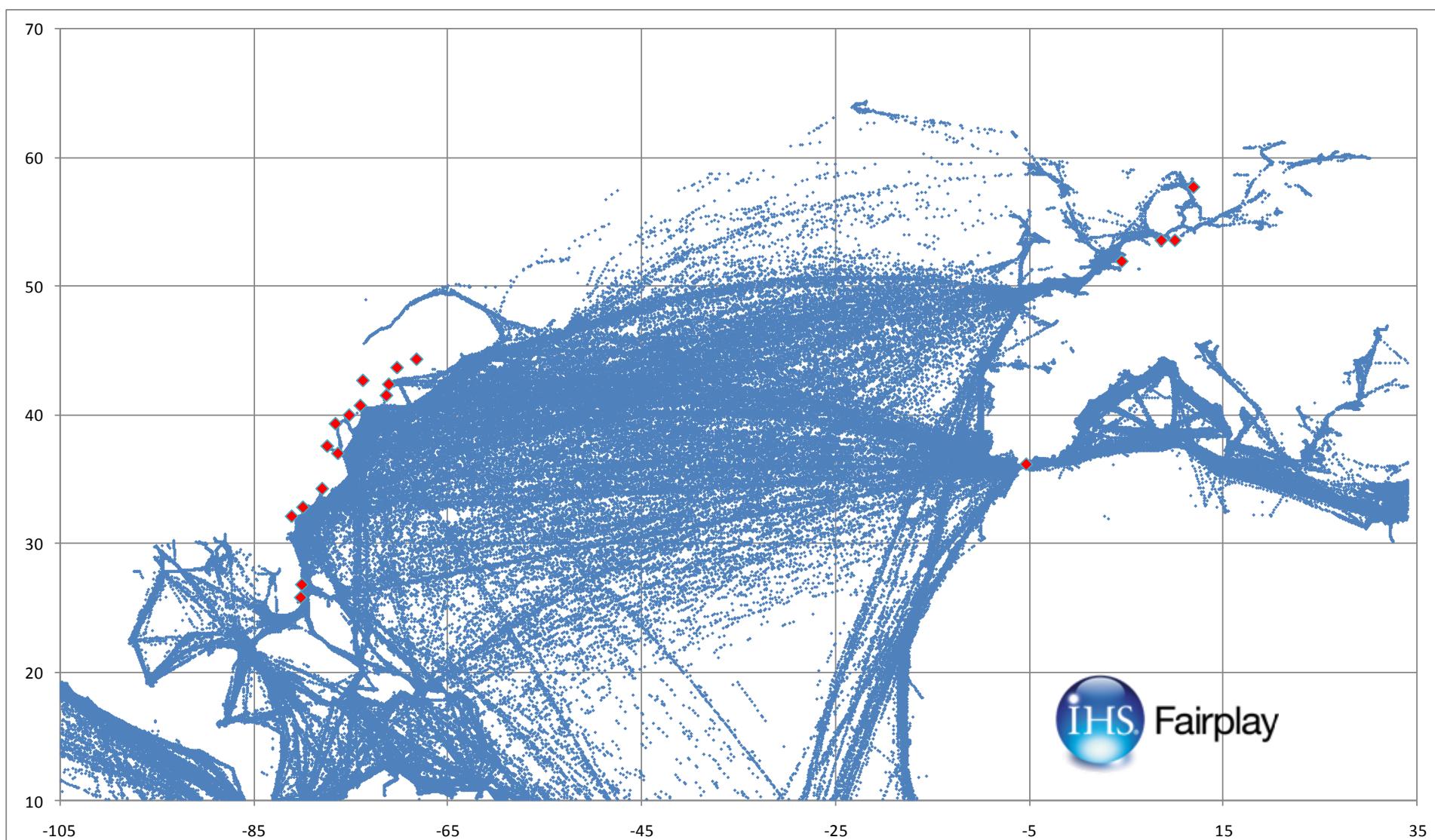
# WHAT'S GOING ON?



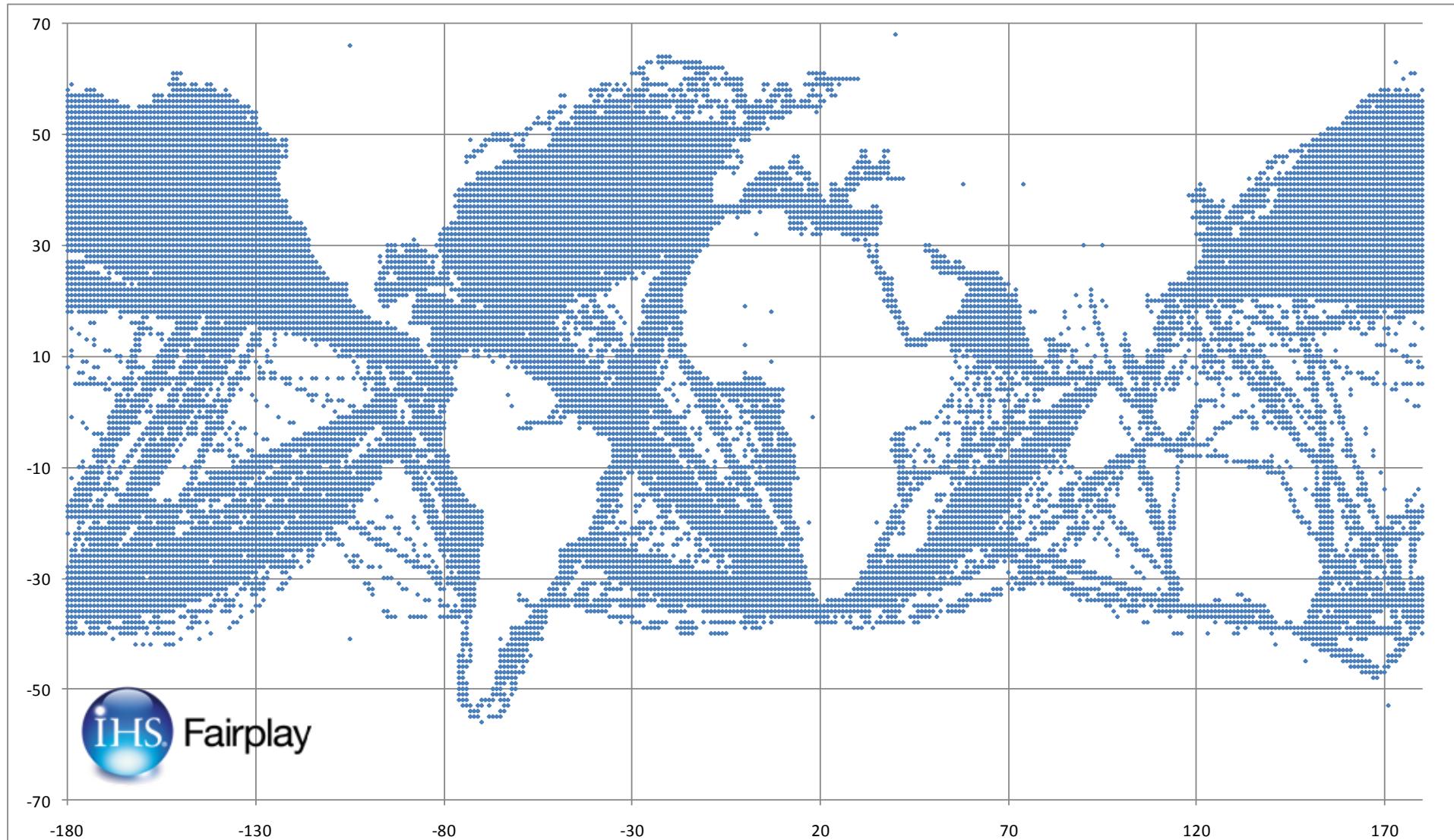
# Intense Activity



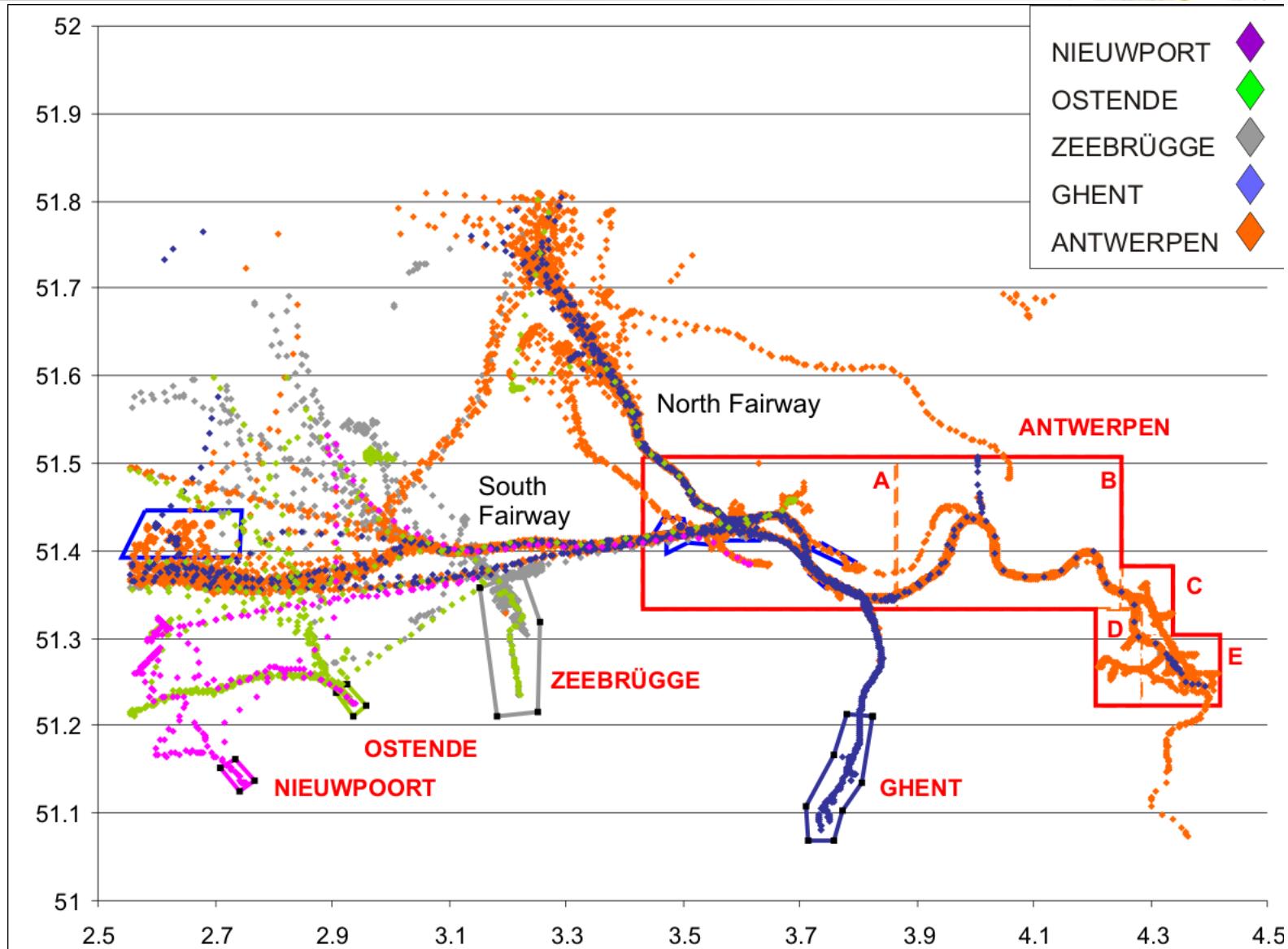
# Look Wider!



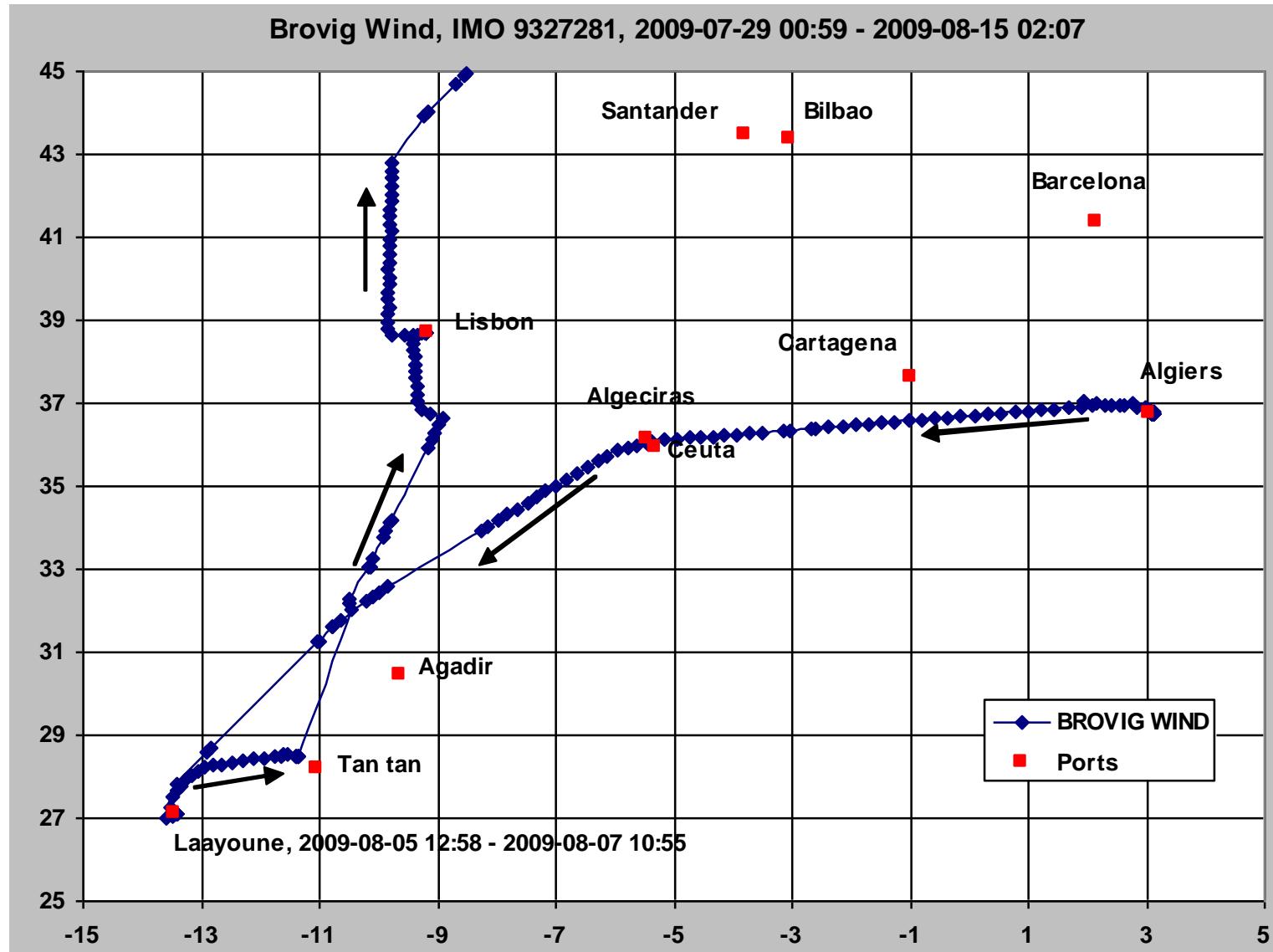
# Follow the Supply Chain



# Separate the Trade Flows



# ..or just a single vessel





# WHAT'S POSSIBLE?



# For Each Vessel;



IMO no  
Long  
Lat  
Time



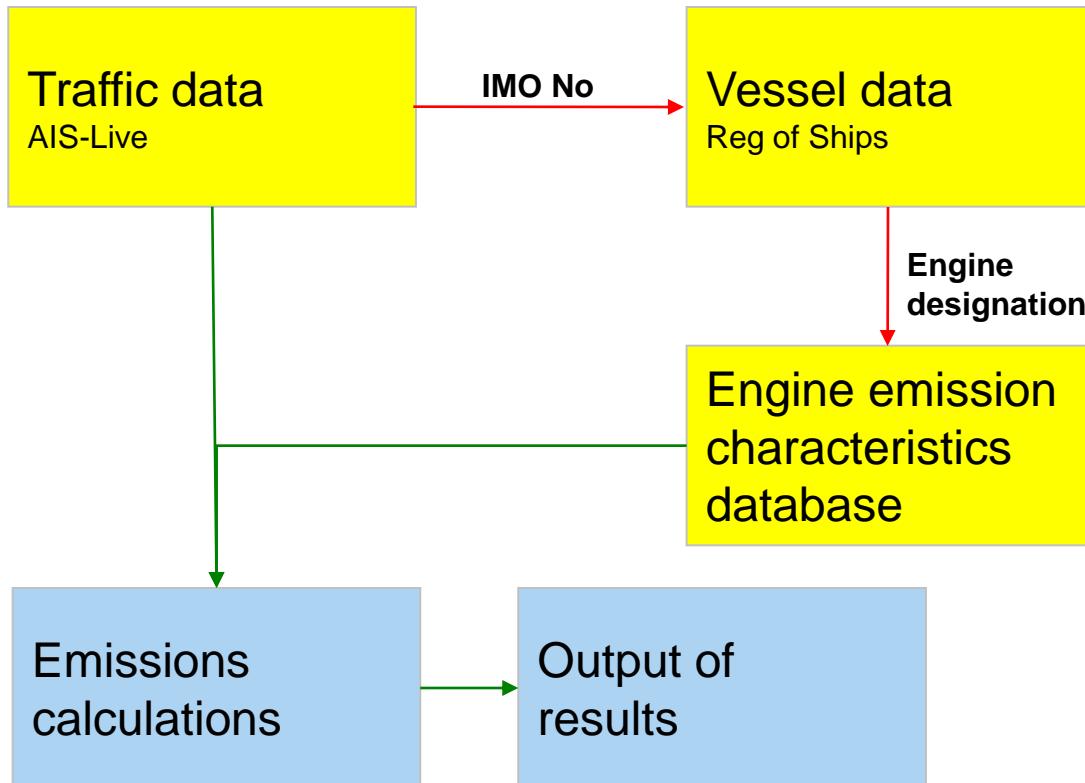
IMO no  
Long  
Lat  
Time +X minutes



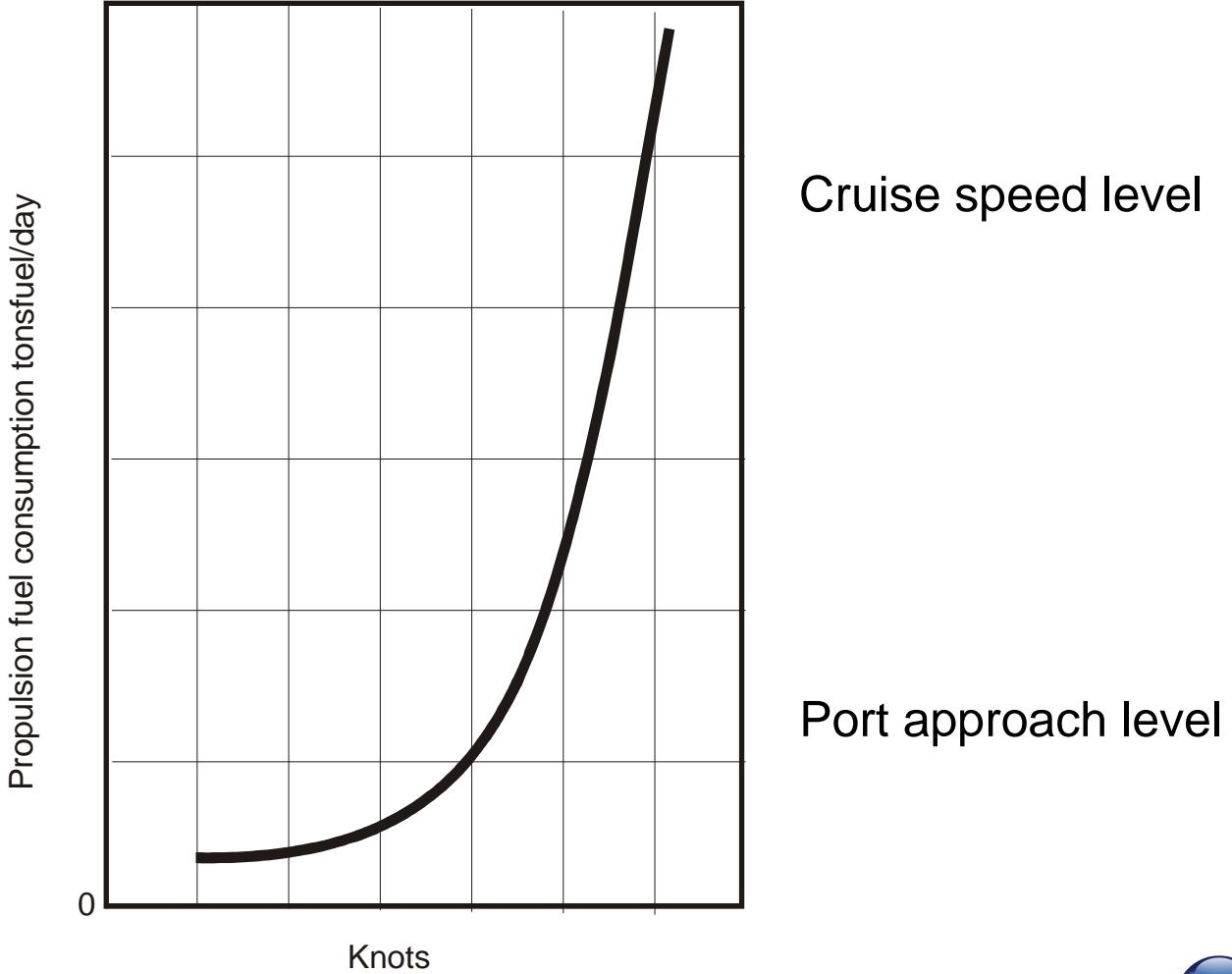
## Calculate:

- Distance
- Average speed

# Emissions Model

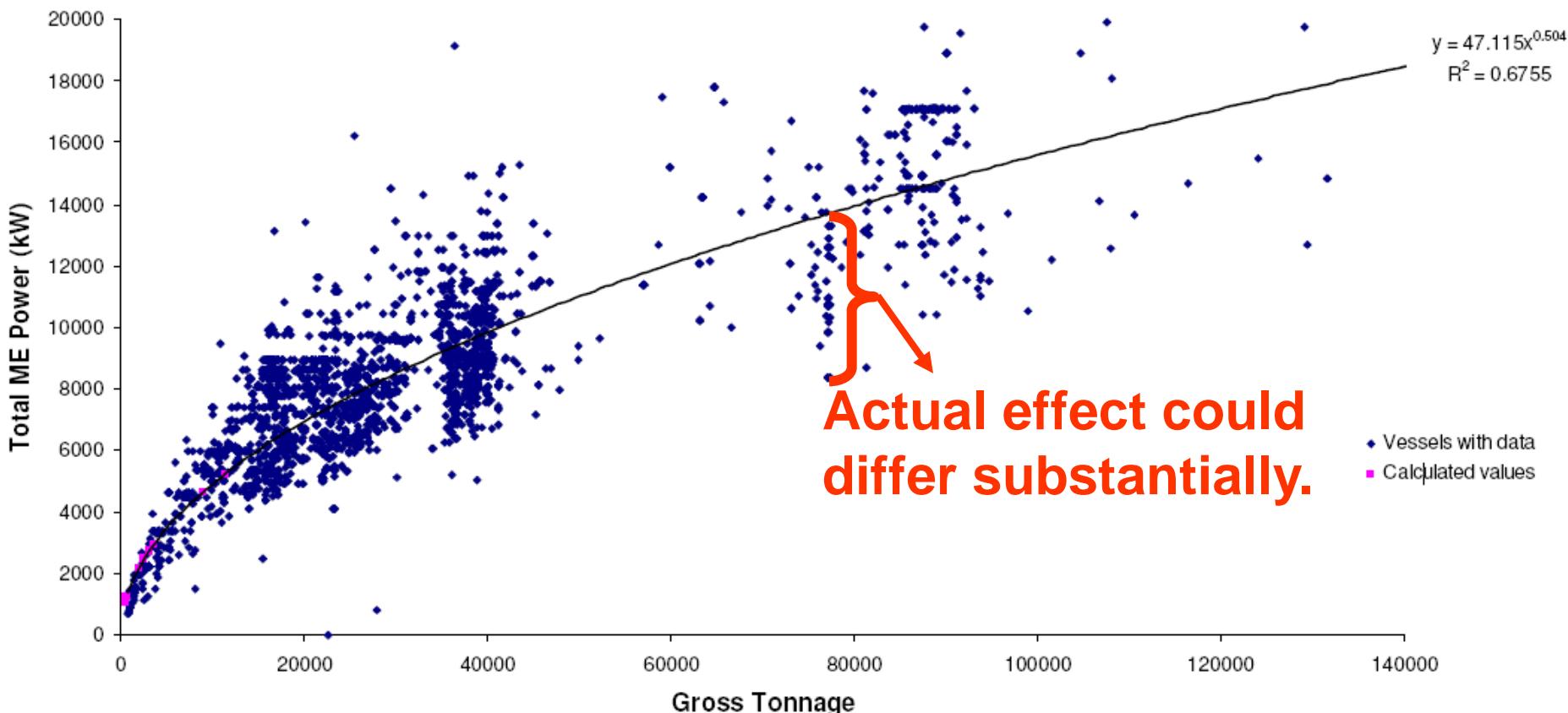


# The speed determines the power outtake



# GT vis-à-vis ME power (kW)

Example: Bulk carriers

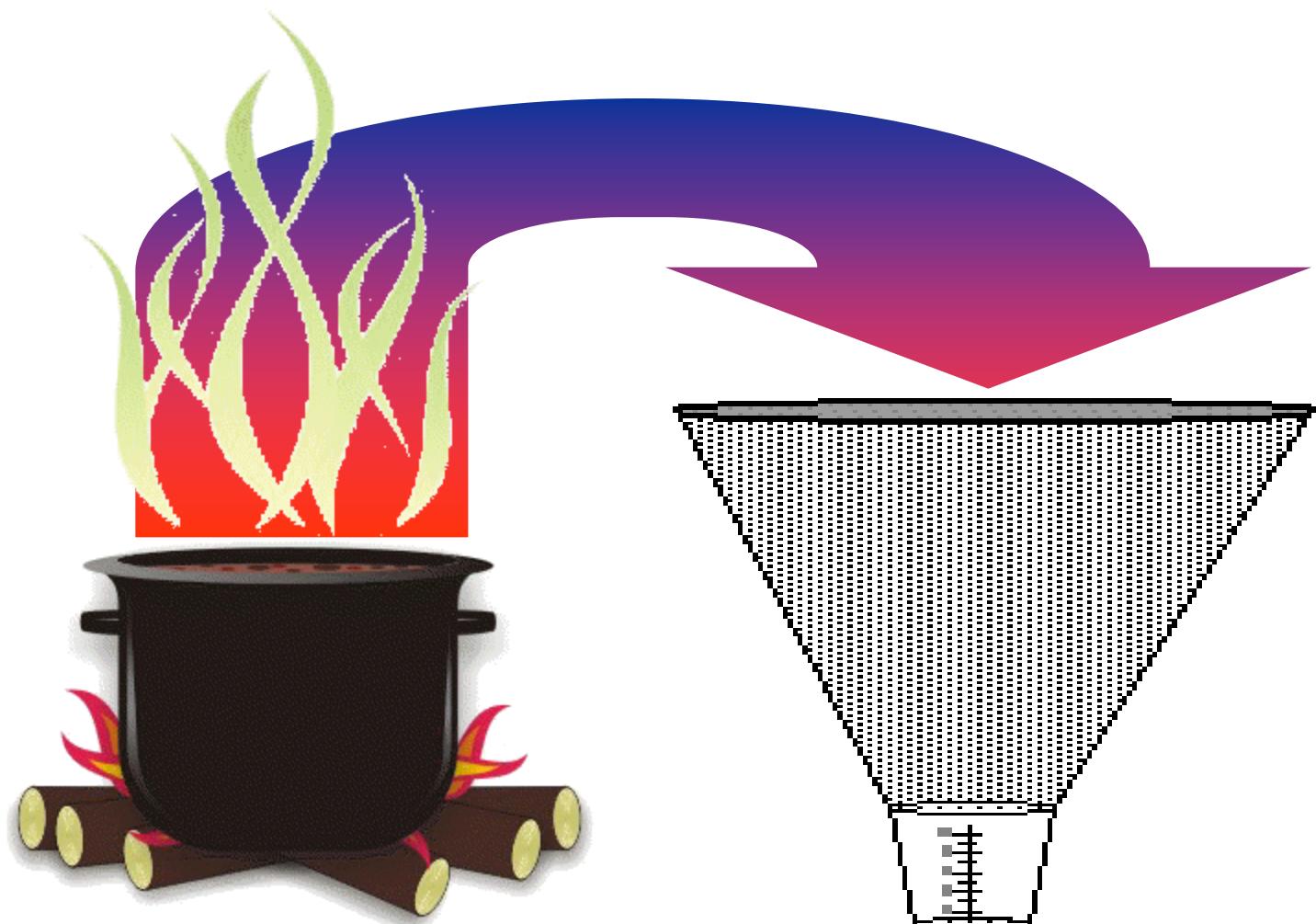


# Add Sulphur



# A Touch of Abatement

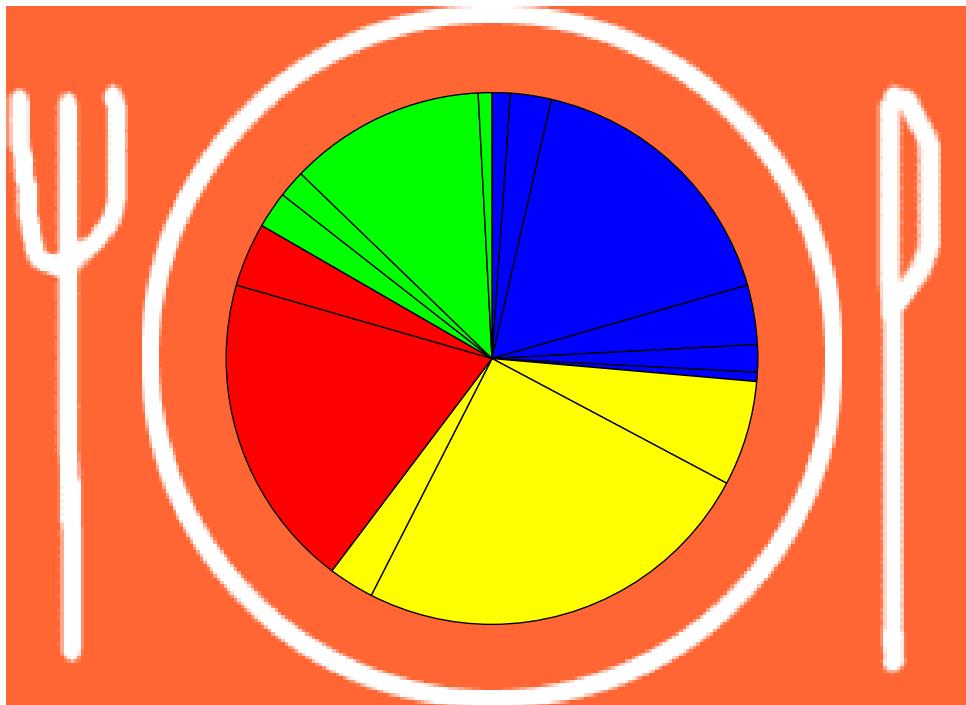
where appropriate



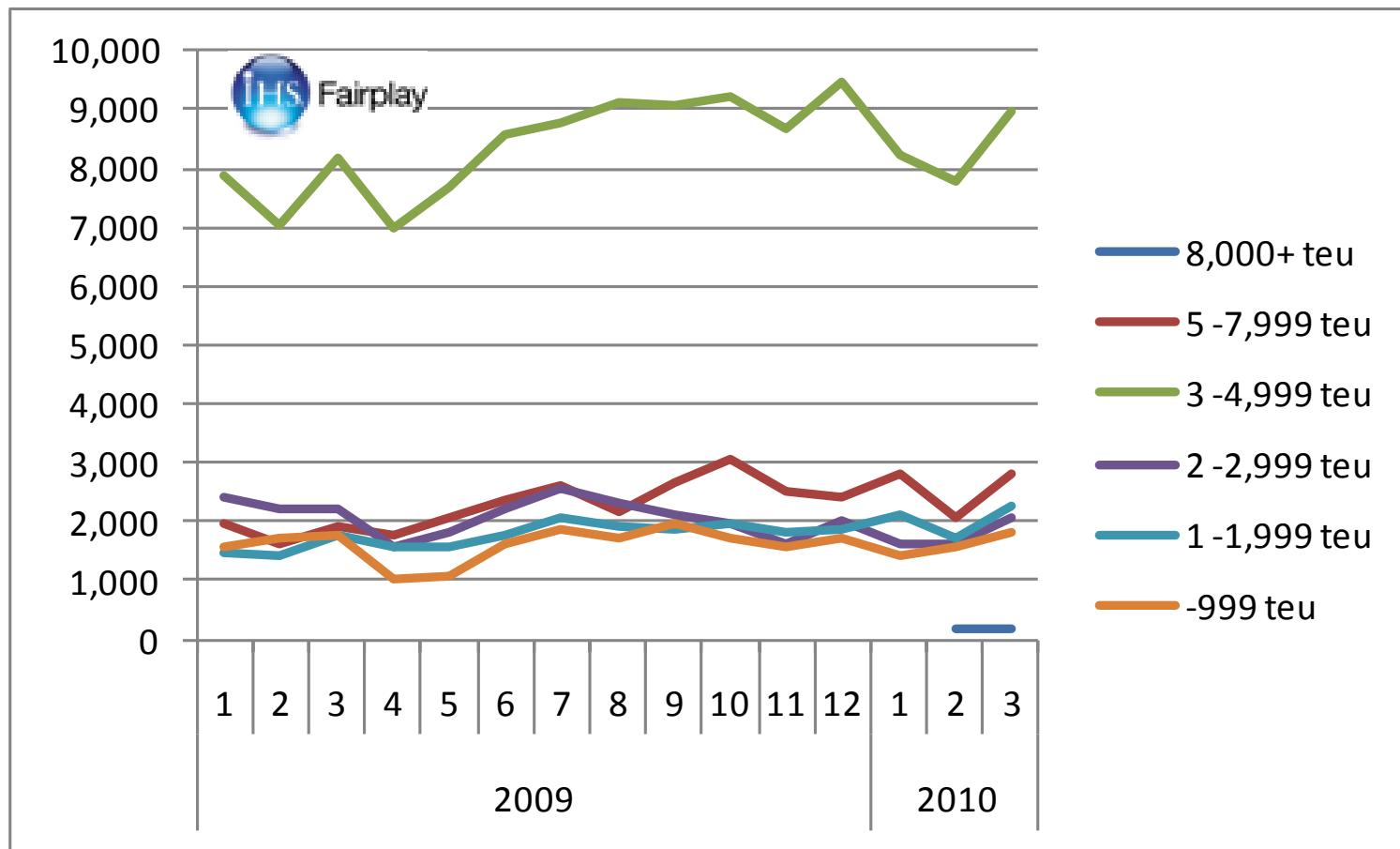
# Slow Steam



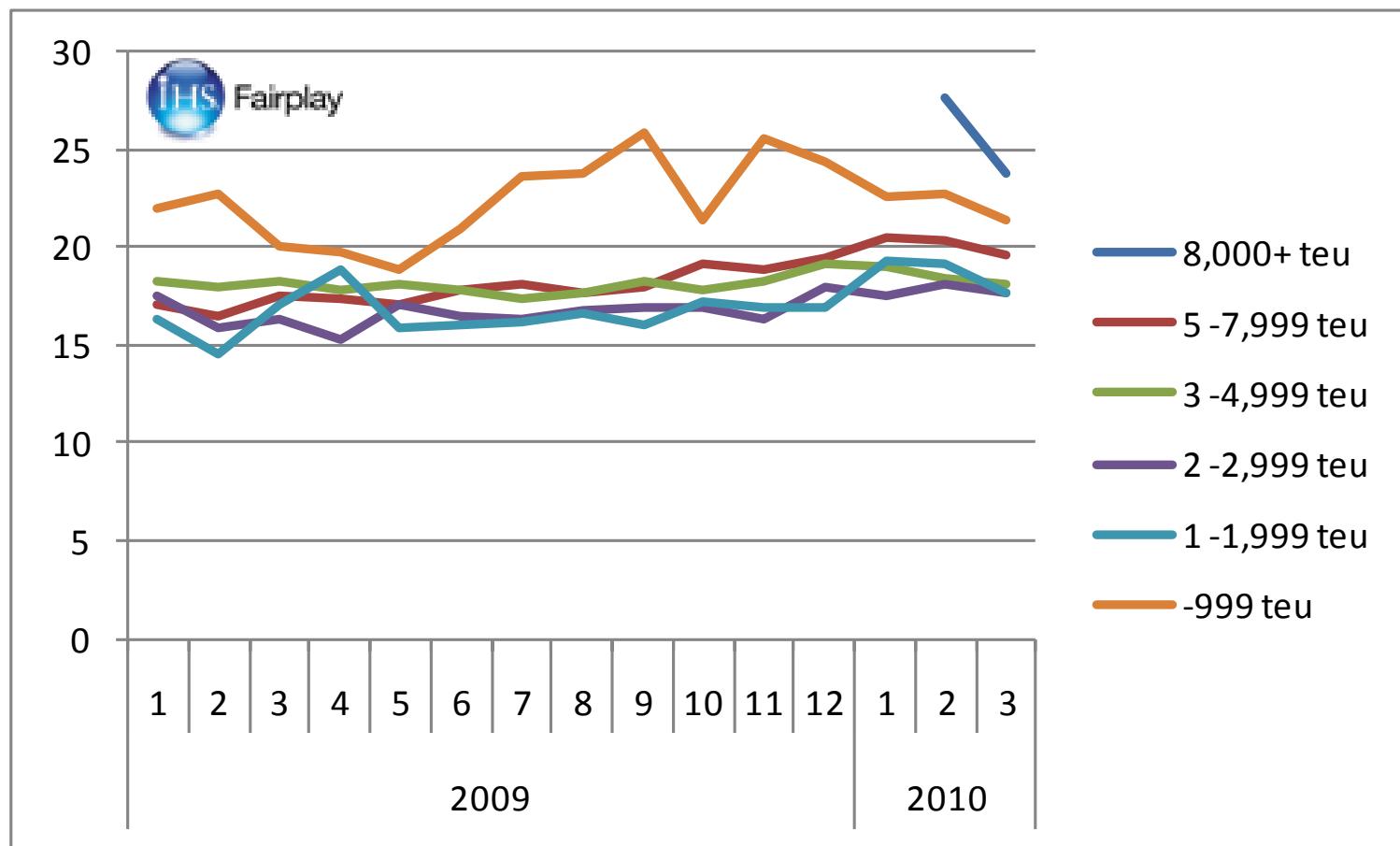
Present the results



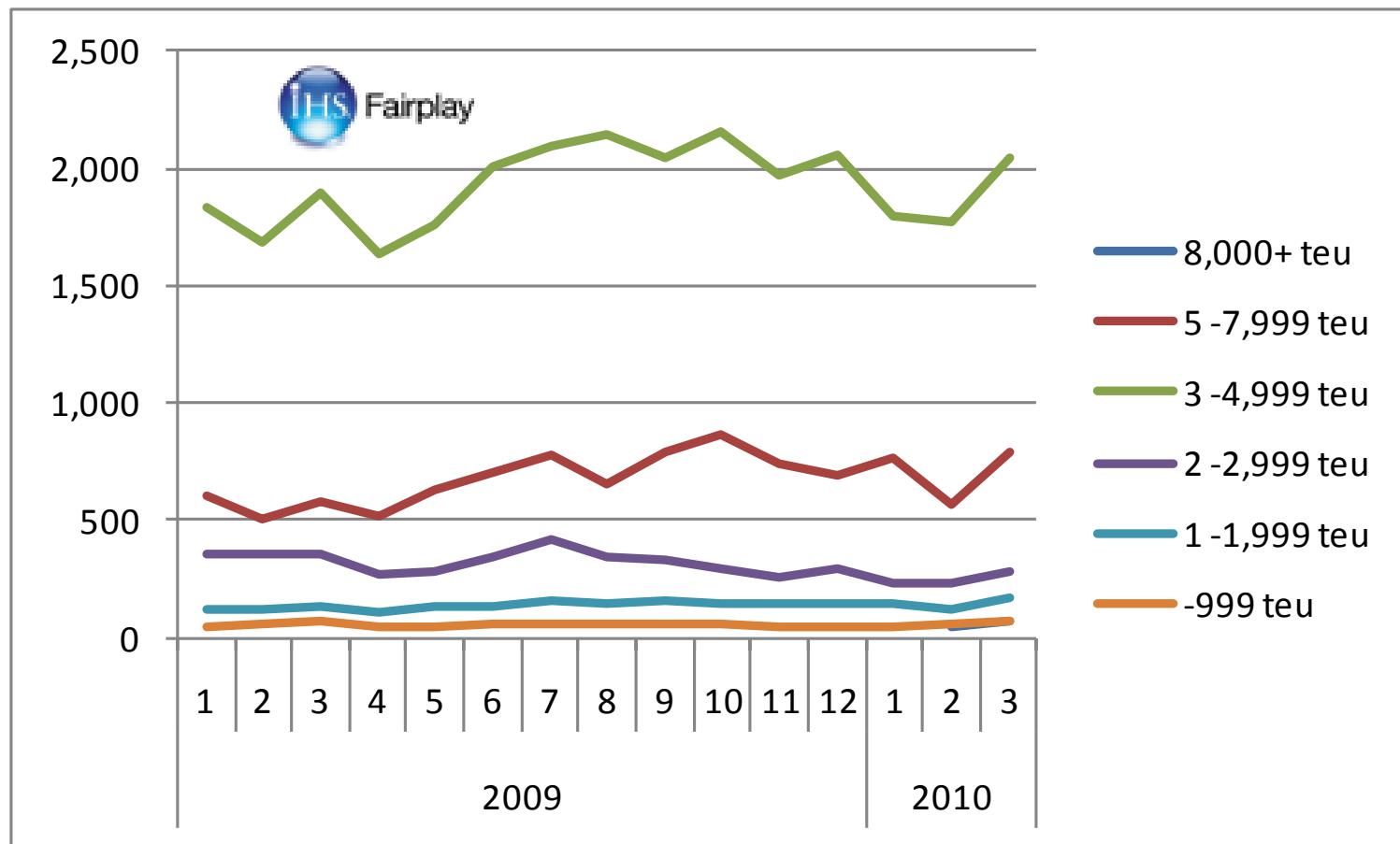
# Total Duration in Port - hours



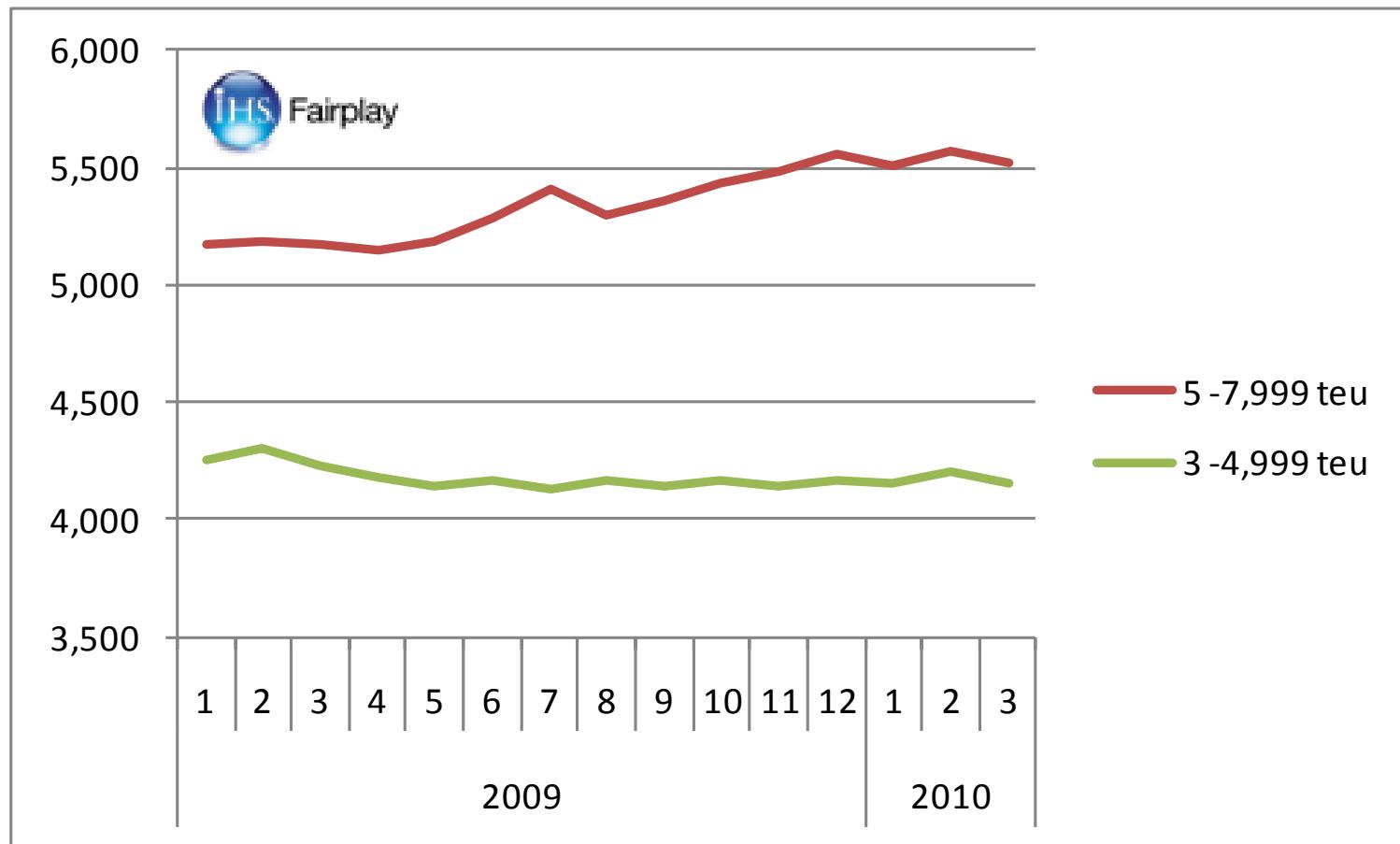
# Average Duration in Port - hours



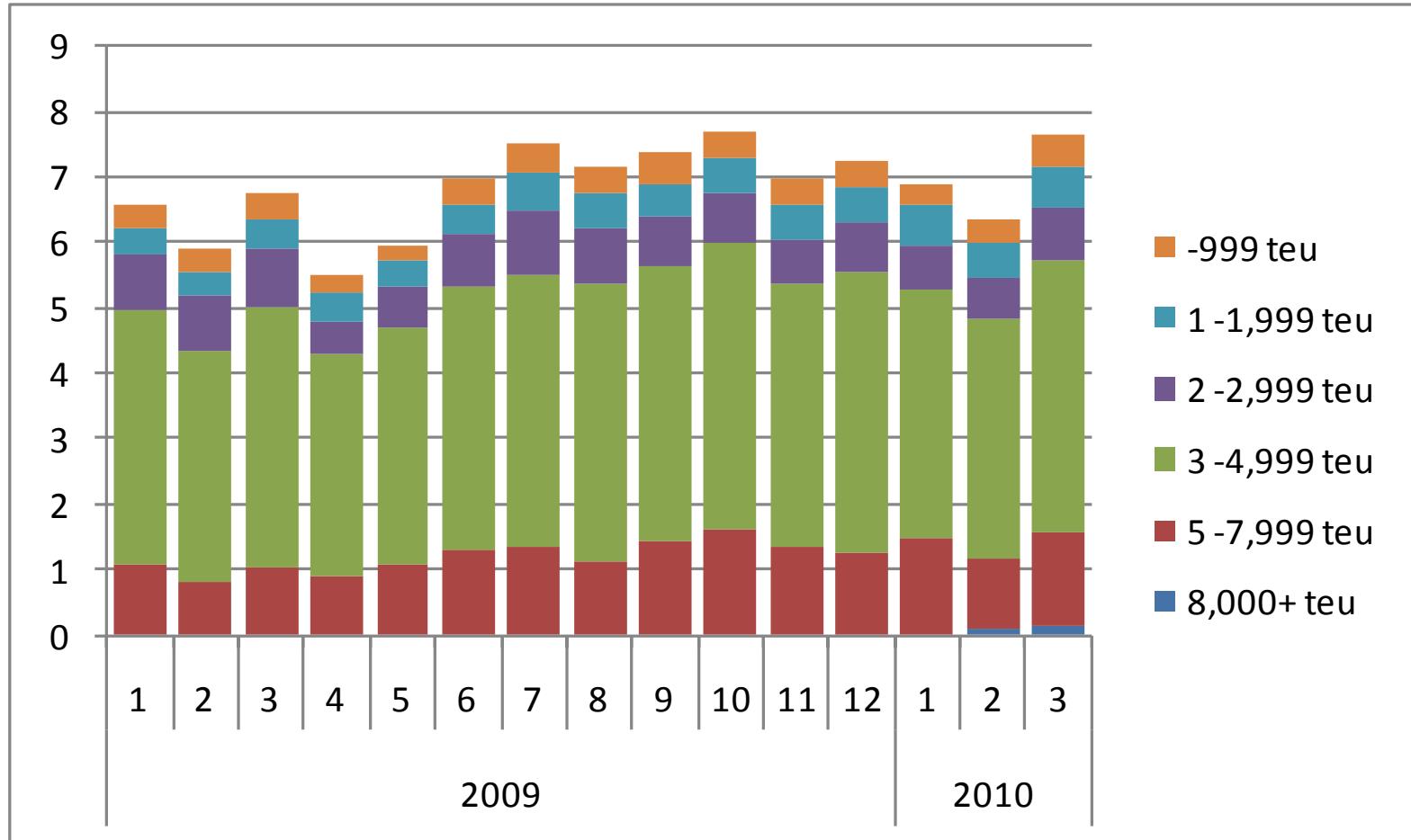
# TEU Capacity of "Calling" Vessels



# Upscaling of capacity



# CO2 while @ Berth





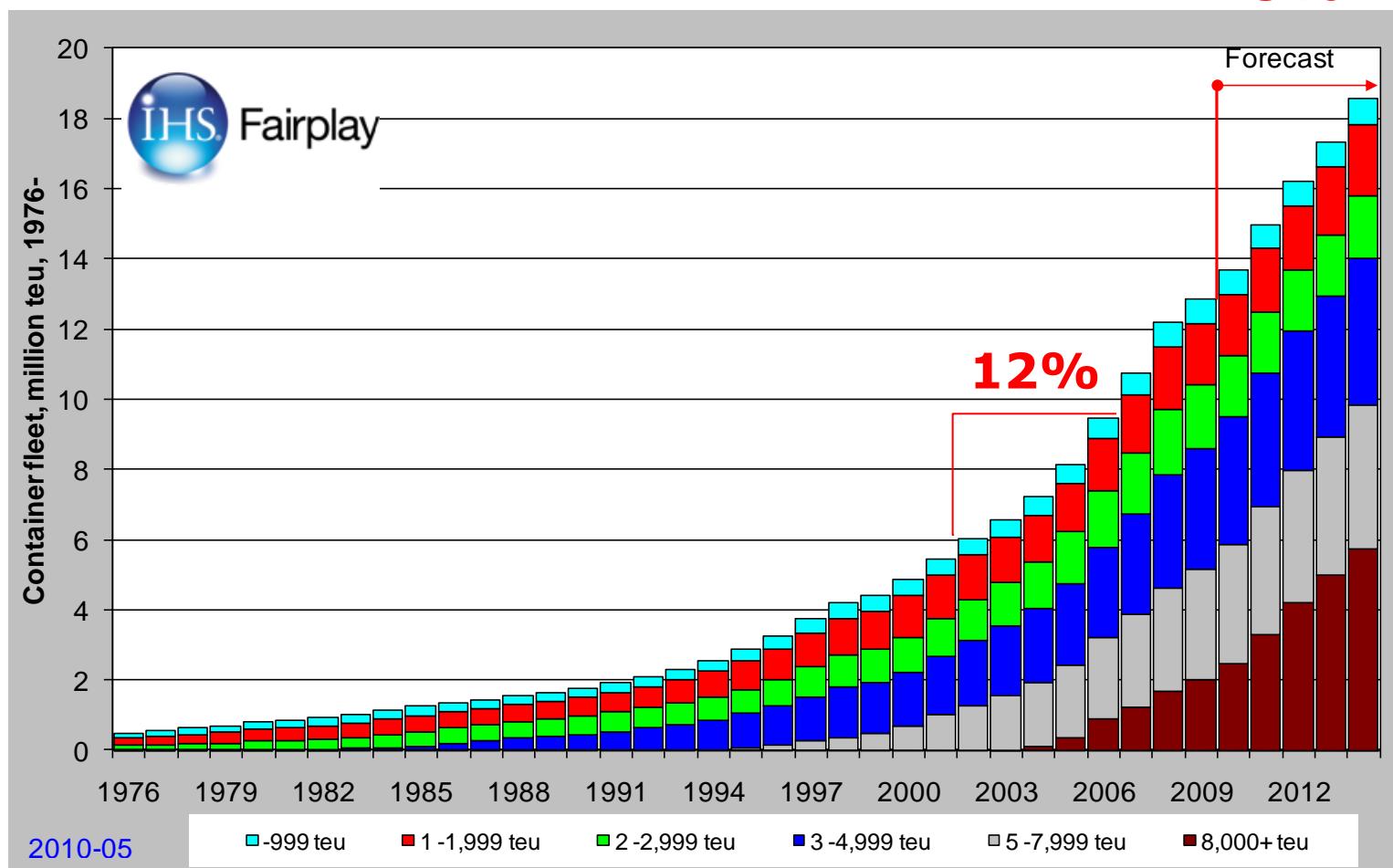
Que?



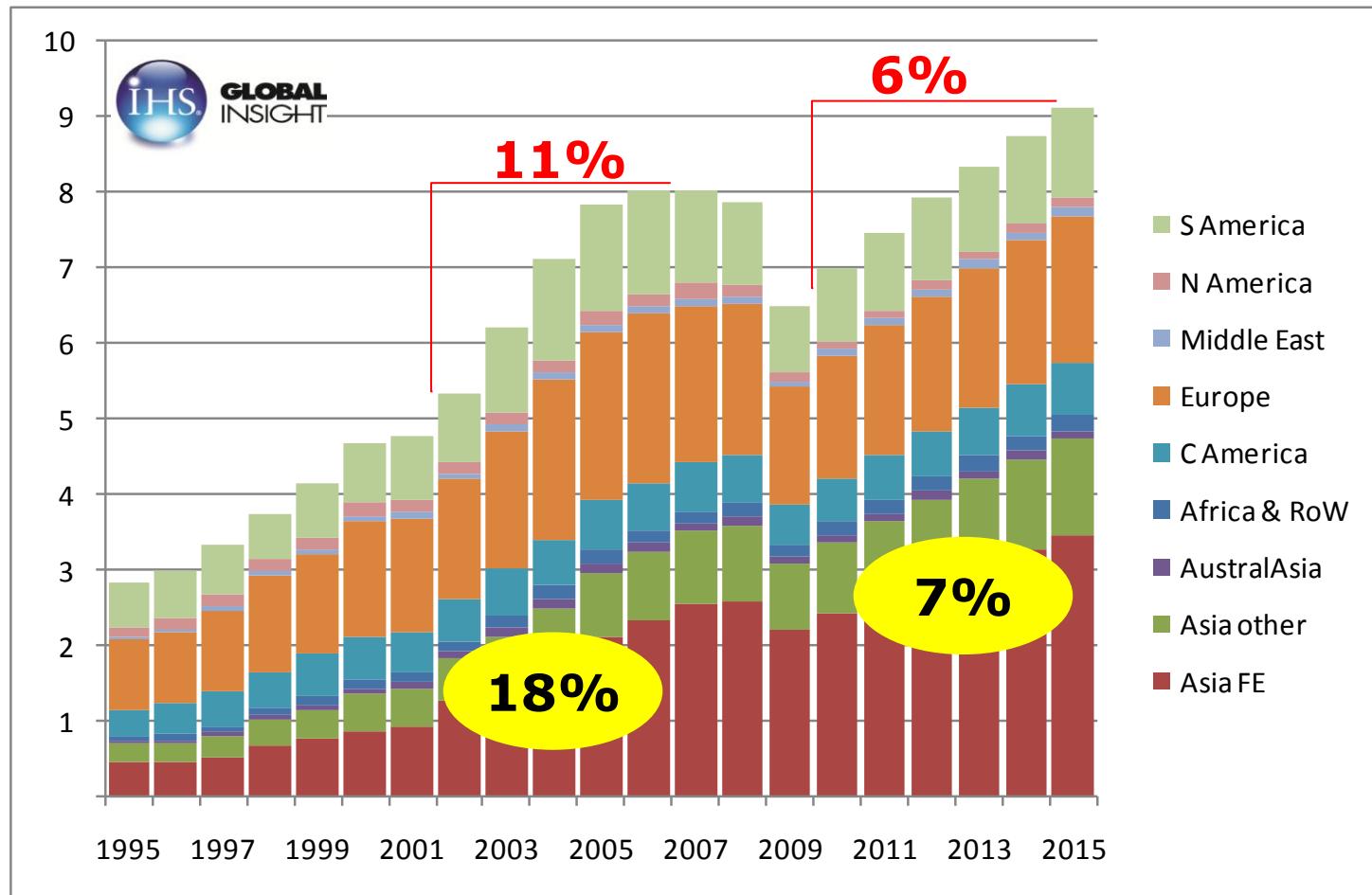
**WHAT'S  
GOING TO  
HAPPEN?**



# Fleet Capacity; More of Everything



# Global Redesign: USEC Containerized Imports – Asia-centric



# 20 Minutes of What's



- What am I talking about?
  - 1,200 container ships in US EC waters
    - All over the place (when not there)
    - Route changes
    - Capacity changes
  - Some pro-active operators, yet:
    - Sulphur
    - Abatement
    - Energy use (LNG, other fuels, on-shore elec....)
    - Energy efficiency
    - Load Factors
    - Routing
  - Upscaling of fleet
  - More capacity to come – "old" technology
  - Tough competition – "cannibalization"

## Incitements?

- Port/fairway dues
- Rate premium
- Preferred partner
- Vetting
- Long term relationships
- Risk sharing - integration
- Corporate Strategy
- Fear?
- Environmental care



Thanks to Procul  
Harum, "A whiter shade  
of pale" for inspiration.

# A Greener Shade of Blue

“...and the truth is plain to see” “...I was feeling kinda seasick”

Thank you

[chris.palsson@ihs.com](mailto:chris.palsson@ihs.com)



# The Source for Maritime Information and Insight

