



**The Source** for Critical Information and Insight™

# An Introduction to IHS- Fairplay & AISLive

Presenter

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Vice President



# Our History



## History of Lloyd's Register

Origins in Edward Lloyd's  
Coffee House

Founded in 1760

Classification of ships and  
equipment

240 offices in over 100  
countries

# Our History



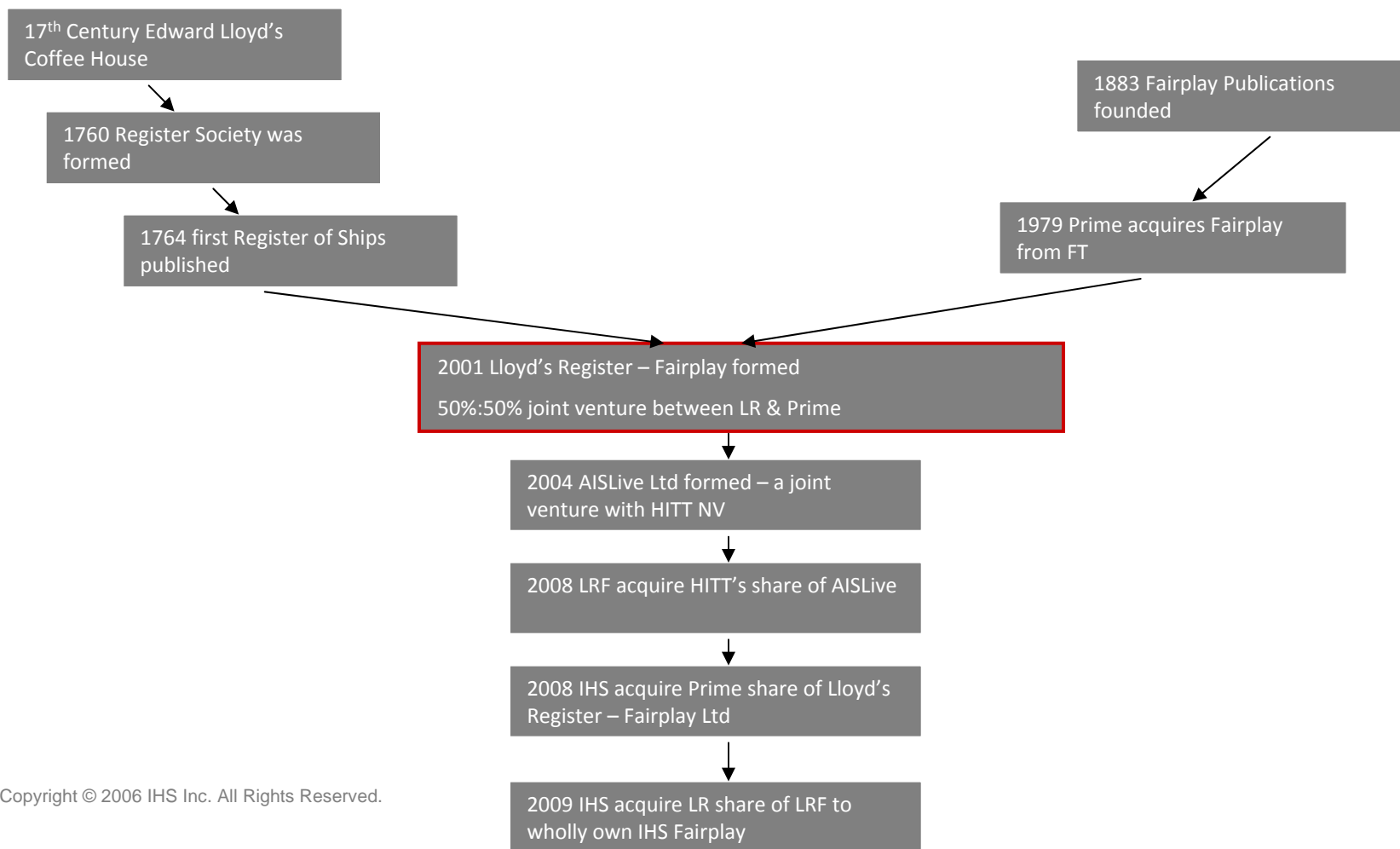
Thomas Hope Robinson  
founder of Fairplay May 1883

## History of Fairplay

- Originally owned by Hope Robinson family
- Briefly owned by the Pearson Group/Financial Times
- Acquired by John Prime in 1979 as one of first MBO's in UK



# IHS Fairplay: Timeline



# IHS Delivers Critical Information & Insight to more than 30,000 customers in 180 Countries across the globe



- IHS in Aerospace & Defense:  
Trusted solution partner across all sectors of the industry

## Government



## Aerospace Manufacturers



## &

## Defense Manufacturers



## Airlines





# The International Maritime Organisation

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- The International Maritime Organization is the United Nations specialised agency responsible for improving maritime security, safety and preventing pollution from ships. The IMO is also committed to technical co-operation.
- The IMO was established in 1948 and currently comprises 170 member countries.
- The IMO ship identification number scheme was introduced in 1987 as a measure to enhance ship safety and security. It assigned a permanent number to each ship for identification purposes. That number would remain unchanged through the ships life.



# Fairplay and the IMO Ship Number

The following is an extract from the the IMO circular letter to all member states:

***“As explained in resolution A.600(15), the IMO Ship Identification Number is made of the three letters “IMO” in front of the Lloyd’s Register (LR) Number (seven digits) and shipbuilders/shipowners are encouraged to provide details of all new orders to Fairplay to facilitate the assignment of the LR number at the earliest opportunity which, for the majority of ships, becomes the IMO number on completion. It can be obtained by contacting the relevant LRF Service or IMO.”***



# Fairplay and the IMO Company Numbers

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In 2005 the IMO implemented company identification numbers to provide transparency in ship ownership. Based on the existing, unique Fairplay Company Numbering Scheme. Operating in a similar way to a vessel's IMO number Fairplay is the sole issuing authority of both the DOC company number and the Registered Owner company number on behalf of IMO.

These numbers appear on Port State Control required ships documentation such as the CSR – Continuous Synopsis Record, ISM and ISPS certificates.





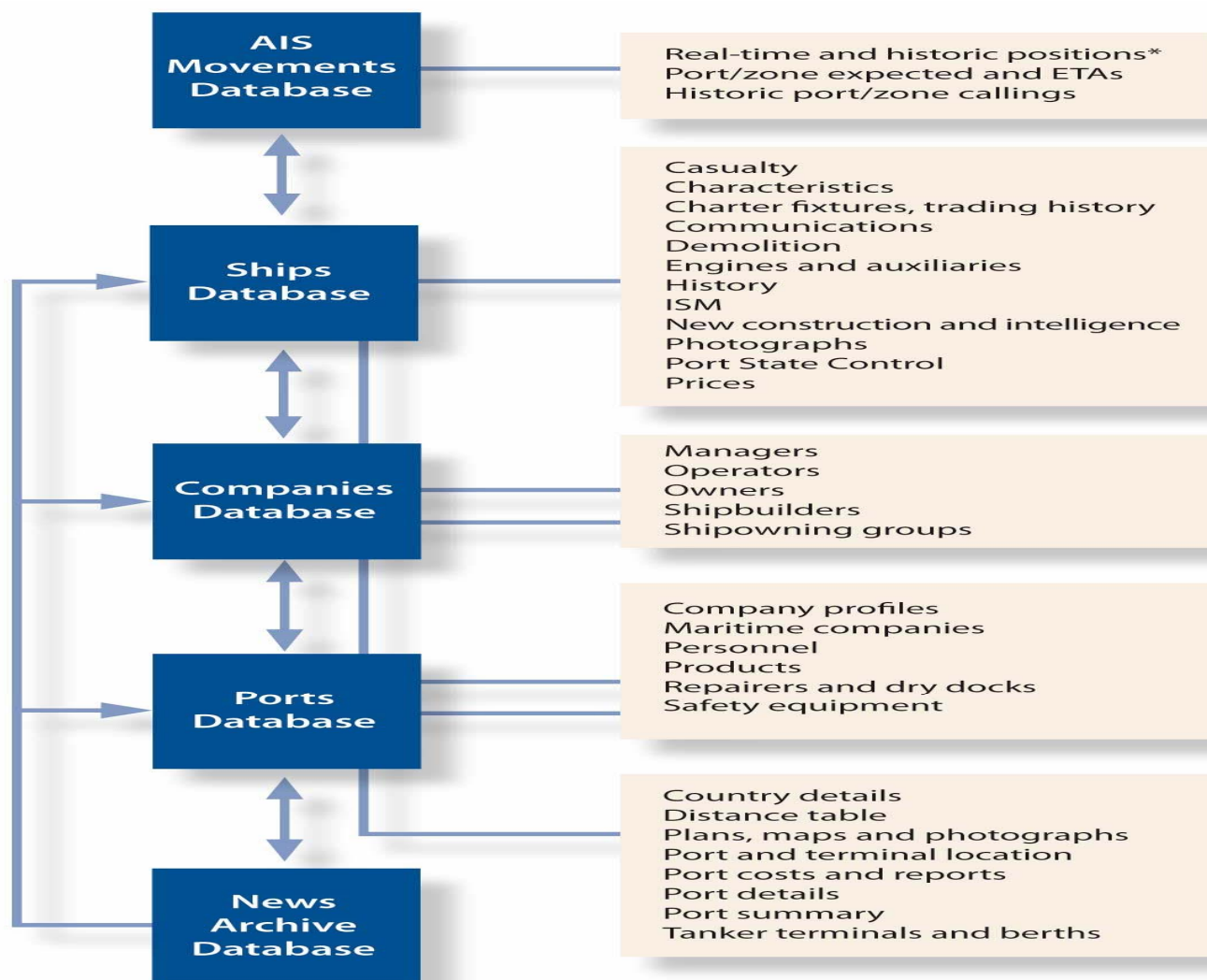
# A Unique Number

**IMO7381154 =**





# IHS Fairplay's Core Databases



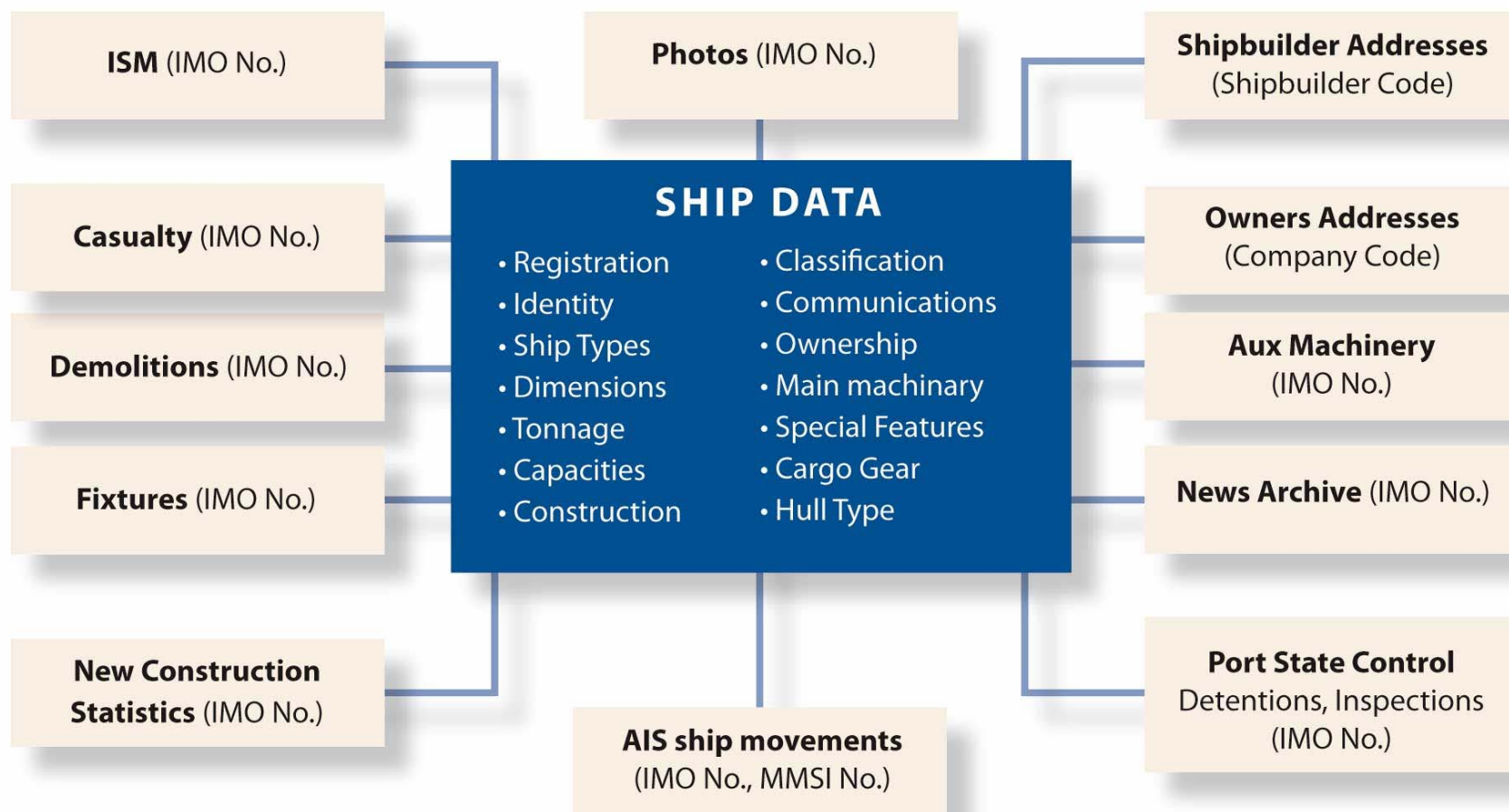


# Lloyds Register of Ships

- Details of 170,000 ships of 100 GT and above, including newbuildings and casualties
- Up to 600 data fields, including tonnages, class, inspections, detentions, cargo capacities, gear and machinery details
- More than 200,000 company records, representing five levels of group and operational ownership
- Extensive image library, with more than 85,000 ship photographs
- Complete shipbuilder information with comprehensive fleet listings
- Casualty module with details of more than 108,000 non-serious and serious casualties, as well as total losses
- Movements module providing extensive real-time ship positions, as well as historic movements
- Additional module covering fixture history for dry and wet vessels engaged in international charter markets



# Lloyds Register of Ships data schema



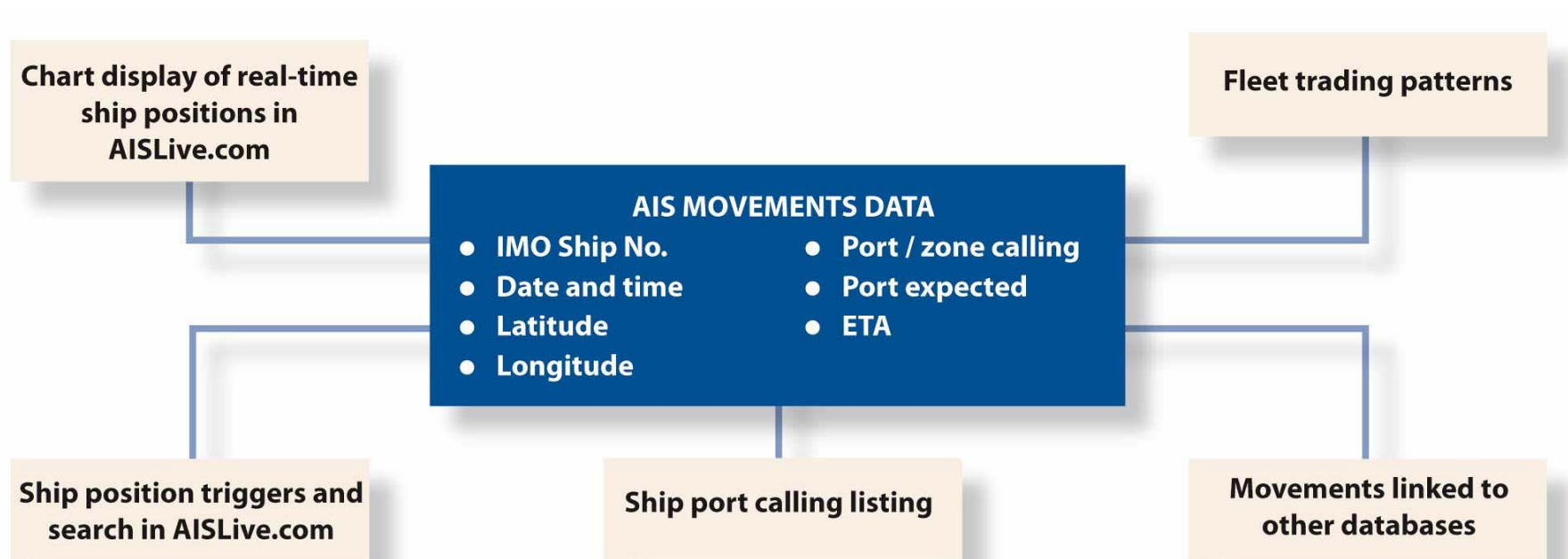


# AISLive

- AIS = Automatic Identification System
- Mandatory on all international trading vessels over 299GT by December 2004
- Public domain signal
- Real time vessel position up to 90 nautical miles from port
- Online real time representation of signals broadcast from ships
- Connected via internet to a central system
- A growing network with coverage on 5 continents
- Coverage in over 100 countries and 2,100 ports and terminals
- Historic movements and port callings
- AIS vessel data validated against the Lloyd's Register – Fairplay ships database
- Real-time and historic ship positions, port and zone callings
- Port expected and ETA



# AISLive data layout





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## **AISLive antenna and services**

Currently 825 active antennas - adding approximately 10 new antennas per month

Two commercial AIS satellites

Customer services include:

- AISLive
- SOAP
- Iframes
- Datafeeds
- Historical analysis
- Port callings - SeaWeb
- Data validation to Register of Ships database
- Links to ship, ownership, photographs, PSC, casualty, fixtures and news services

# Data sources April 2010 average 24 hour period

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- Total unique ship records seen 54,000 daily
- Fairplay / AISLive total records 45,000
- Satellite total records 12,000
- Common records 5,000



# Estimated fleet coverage (vessels over 10,000 dwt)

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- Combined coverage currently 54,000 ships per day
- 60% of fleet seen at least once within last 24 hours
- 67% within last two days
- 80% within last seven days



# 24 hours of AIS coverage

**Register FREE** [www.mschoa.org](http://www.mschoa.org) **Horn of Africa**

**SHOW LIST OF VESSELS** | [HOME](#) | [FAQ](#) | [TRIGGER ZONES](#) | [LOG OFF](#)

**THE FIRST GLOBAL AIS NETWORK**

Use the search for:  
Locations

- Harbours (e.g. Rotterdam)
- Positions (e.g. N52 E4)

Vessels

- Name
- Callsign
- IMO Number (exact match only)
- MMSI Number (exact match only)

Use the buttons to set the mouse action:

- Draw a rectangle over the area to zoom to.
- Move the map, double click to center.
- Pick a vessel and view detailed information.

0 Items found.  
Clear search

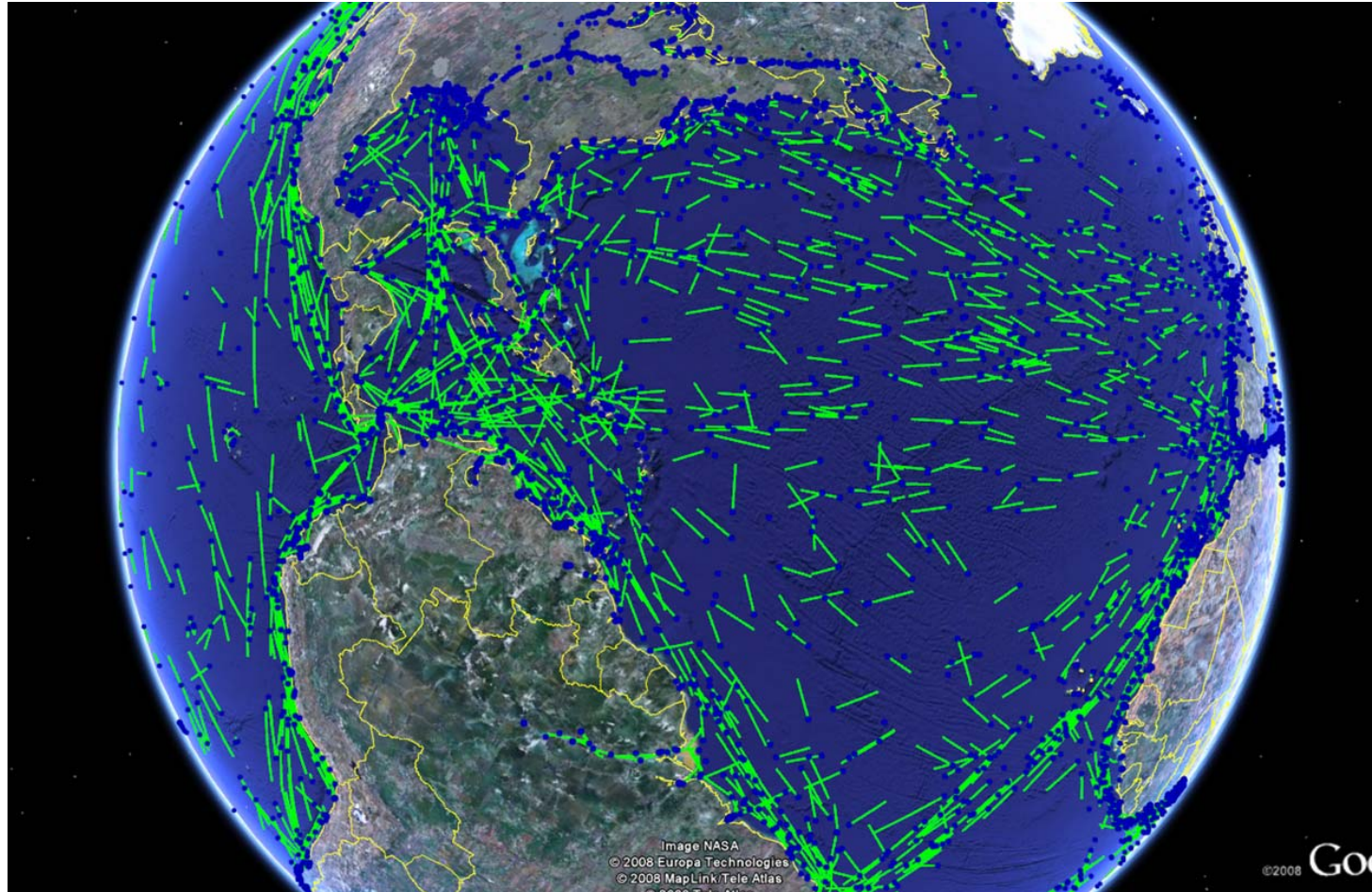
©2007 AISLive Ltd, Mapdata ©2007 C-Map Norway AS

Toggle Fullscreen | Show Weather | Use this link to create a bookmark/favorite to this view

N 60°55.825', W 175°04.687'



# Cross Atlantic Traffic in one day





# Asia Pacific Space Based AIS





# Port callings

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- AIS data is processed to create port and zone callings
- Port callings for over 3,200 ports, terminals and places of interest (canals, major anchorages)
- The top 2,700 ports account for 99% of global callings

THE COMBINATION OF LRF / AISLIVE AND SATELLITE AIS DATA PROVIDES YOU WITH A COMPREHENSIVE GLOBAL POSITION AND PORT CALLINGS SERVICE, WHICH PROVIDES TIMELY AND ACCURATE DATA ON THE WORLD'S COMMERCIAL SHIPPING FLEETS



# A unique offering

- Global coverage
- Reach – no issues with land based infrastructure
- Links to world class information sources



**GLOBAL  
INSIGHT**

BRINGING YOU THE  
**POWER OF PERSPECTIVE**



**CERA**  
An IHS Company