S&P GlobalMarket Intelligence

Container Port Performance

Global Quarterly Analysis Summary 2023Q3

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Executive summaryGlobal Port Performance 2023Q3

- Container Moves on ocean going ships declined in all US regions. Average Call Size quantity of containers loaded and discharged per individual ship call declined by more than 26% at main ports on the US West Coast.
- The drop in demand and call sizes drove further improvement in operational performance in all US regions. At Gulf ports, **Port-Moves-Per-Hour (PMPH)** the quantity of containers moved per hour a ship spends in port and a key measure of port productivity increased by nearly 66% YoY in 2023Q3, and by more than 90% at the main East Coast ports.
- Yard productivity also improved with West Coast ports showing a respective 30% and 45% decrease in median import
 and export Container Dwell Time. Container Dwell Time is the amount of time a container remains in the terminal yard
 before pick up by consignee (import) or before loading on a ship (export). Against the trend, there was a small increase
 in median export Container Dwell Time at the main East Coast ports.
- Ship Waiting Time continued to fall on all US coasts, with the biggest decline recorded at East Coast ports (78%).
- Performance at Chinese ports continued to improve. The main Chinese gateways showed a collective improvement of 30% in PMPH.
- Ports in Southeast Asia registered growth in container moves on ocean going ships as the region expands its position as
 a sourcing destination in global supply chains.
- Operational performance continued to improve at the main Southeast Asia gateways (PMPH +20%) and yard productivity was ahead of Chinese counterparts during the quarter.

Content

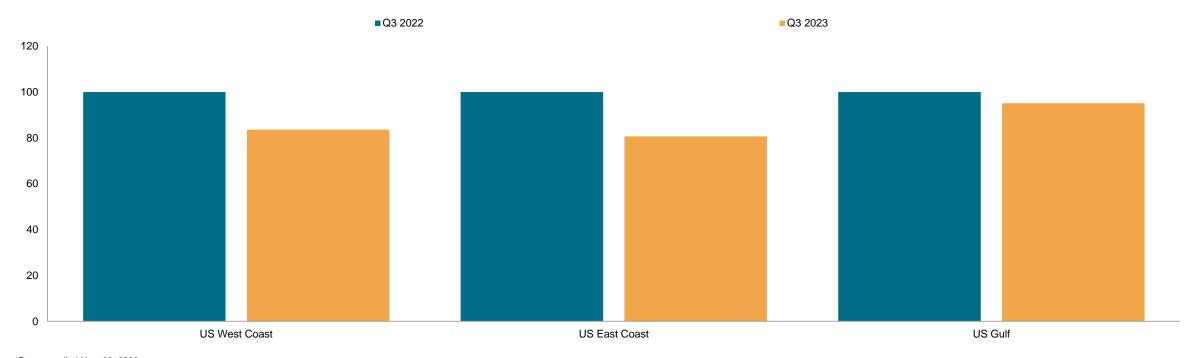
This report analyses performance at the main US, Chinese and Southeast Asian ports*, on the following metrics:

- 1. Container Moves
- 2. Call Size Development
- 3. Port-Moves-Per-Hour
- 4. Import and Export Dwell Time (Yard Productivity)
- 5. Berth-Moves-Per-Hour
- 6. Ship Waiting Time

^{*}Please see appendix for details

Container Moves* on ocean going ships declined in all US regions. Main ports on the US East Coast registered a collective YoY decline in moves of nearly 20% in the third quarter

Moves Development US Coasts, Index-based reporting Q3 2022 = 100



Data compiled Nov. 02, 2023.

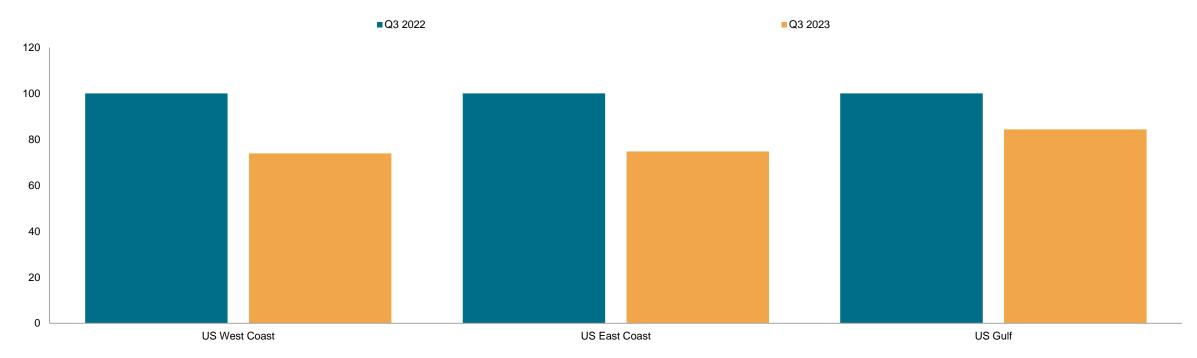
Source: S&P Global Market Intelligence.

^{*}Total container Moves. Load + discharge + re-stowage moves (excludes hatch covers, gear boxes, etc.)



Average Call Sizes* decreased on all US coasts, with the biggest decline at the main West Coast ports (-26%)

Call Size Development US Coasts, Index-based reporting Q3 2022 = 100



Data compiled Nov. 02, 2023.

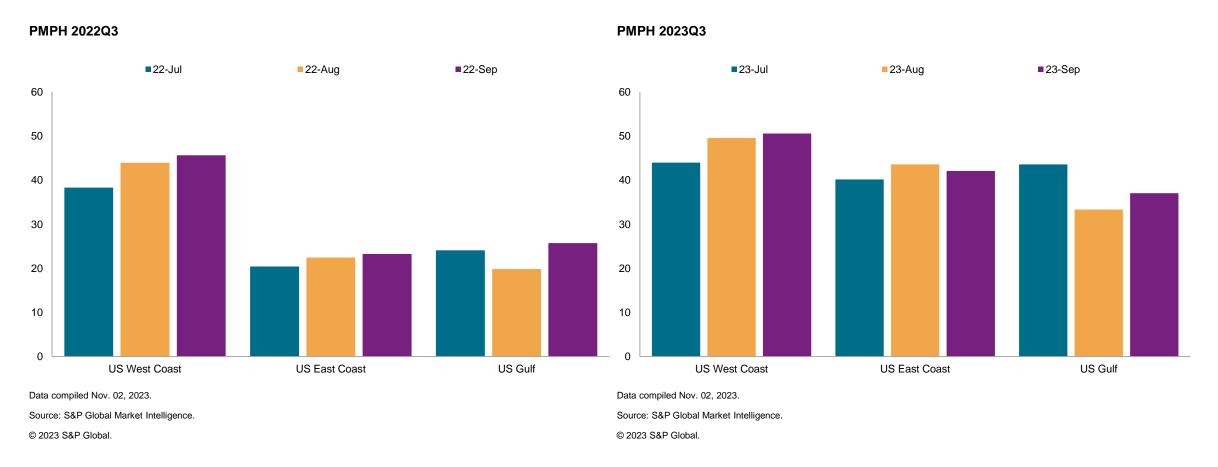
Source: S&P Global Market Intelligence.

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*Average Call Size is average moves (containers loaded + discharged) per port call



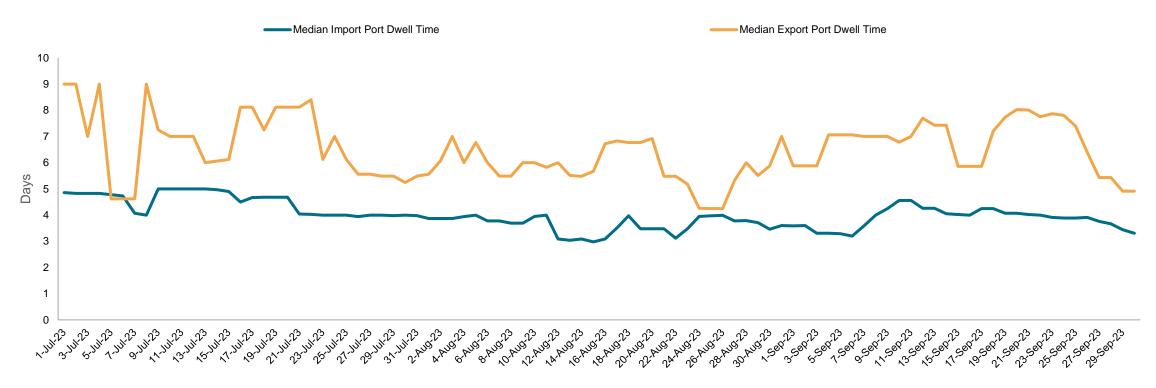
Productivity at US ports continues to improve on all coasts; Port-Moves-Per-Hour* at Gulf ports expanded nearly 66% YoY and by 90% at main East Coast ports



^{*}Port-Moves-Per-Hour (PMPH) is the quantity of container moved per hour a ship is in port. The higher the number the more efficient the port

Yard productivity improved at US West Coast ports, with a respective 30% and 45% decrease in median import and export Container Dwell Time* during 2023Q3

Port Dwell Time development



Data compiled Nov. 07, 2023.

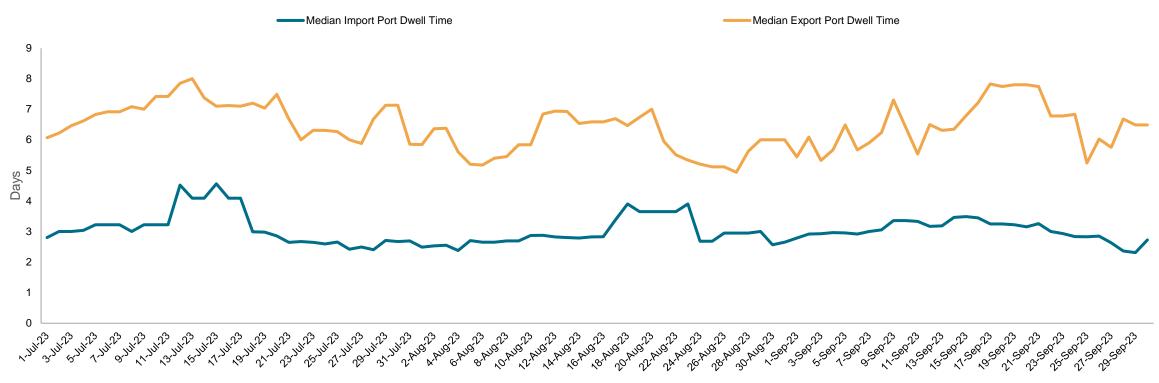
Source: S&P Global Market Intelligence.

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*Import Dwell Time: elapsed time in days from container offload from the ship to gate-out Export Dwell Time: elapsed time in days from gate-in to loading on the ship

US East Coast ports registered a slight decline in median import Container Dwell Time and a slight increase in median export Container Dwell Time

Port Dwell Time development



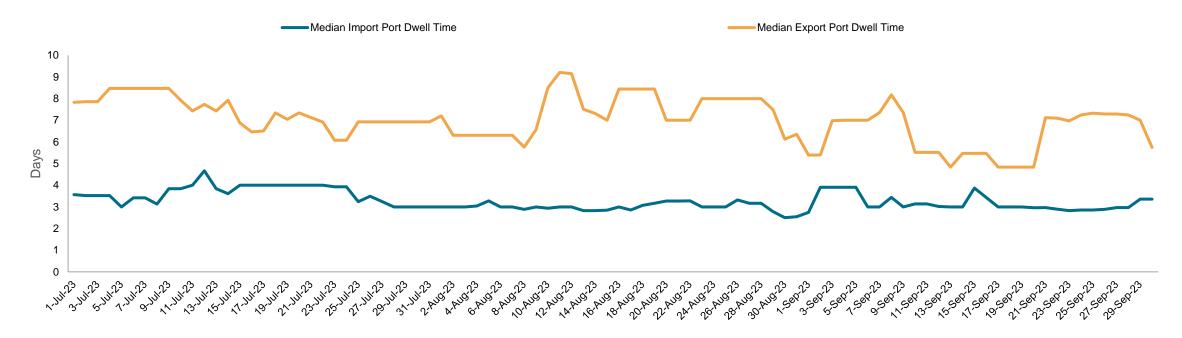
Data compiled Nov. 07, 2023.

Source: S&P Global Market Intelligence.

^{*}Import Dwell Time: elapsed time in days from container offload from the ship to gate-out Export Dwell Time: elapsed time in days from gate-in to loading on the ship

Median import Container Dwell Time* at US Gulf ports decreased by 6% during 2023Q3; median export Container Dwell Time decreased by more than 25%

Port Dwell Time Development



Data compiled Nov. 07, 2023.

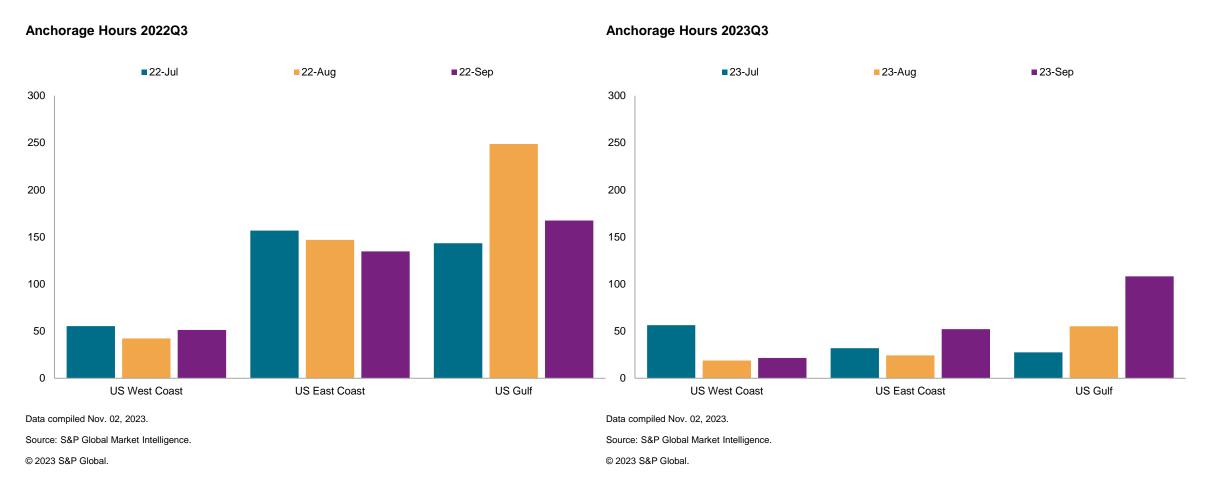
Source: S&P Global Market Intelligence.

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*Import Dwell Time is the elapsed time in days from container offload from the ship to gate-out Export Dwell Time is the elapsed time in days from gate-in to loading on the ship

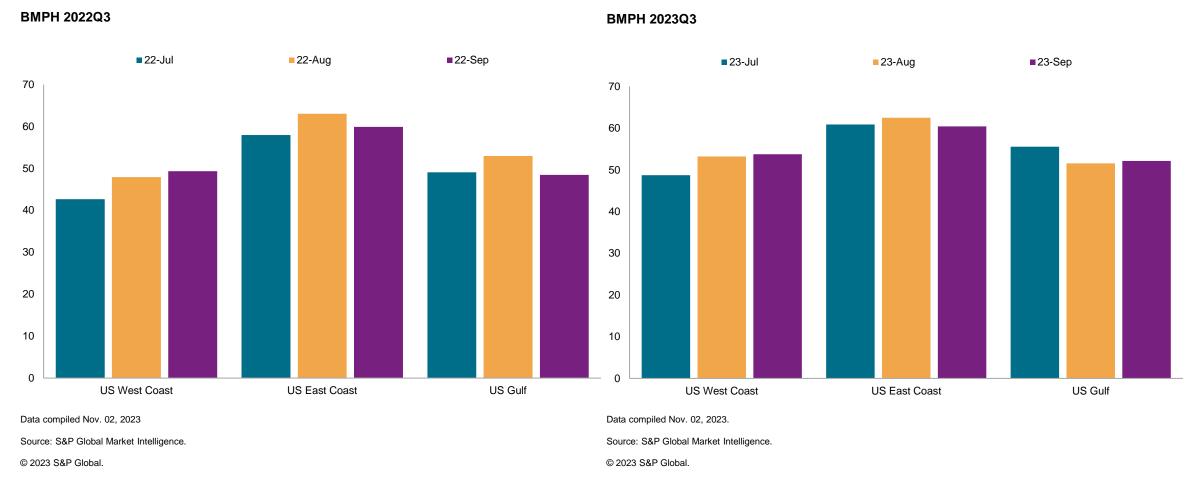


Ship Waiting Time* dropped on all US coasts, with the biggest decline on the East Coast (-78%)



^{*}Total elapsed time from when a ship enters the AIS defined anchorage zone to when ship departs anchorage zone (ship speed must drop below 0.5 knots for at least 15 min within the zone)

Berth Productivity* improved on all US coasts. West Coast ports showed the biggest improvement (+12%)

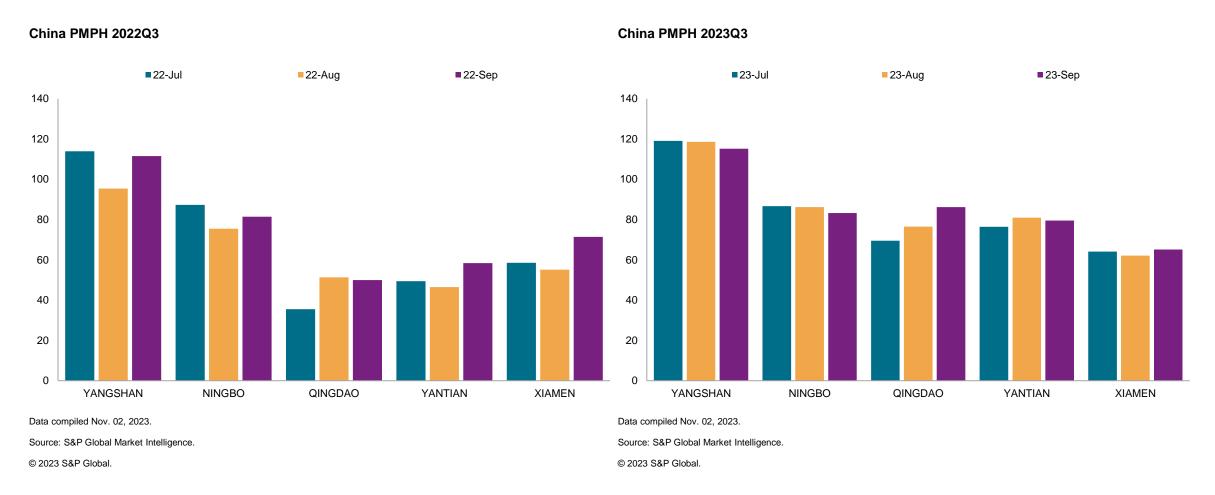


^{*}Berth-Moves-Per-Hour (BMPH) is the quantity of containers moved per hour a ship is at berth. The higher the number the more efficient the terminal



Northeast and Southeast Asia gateway performance analysis 2023Q3

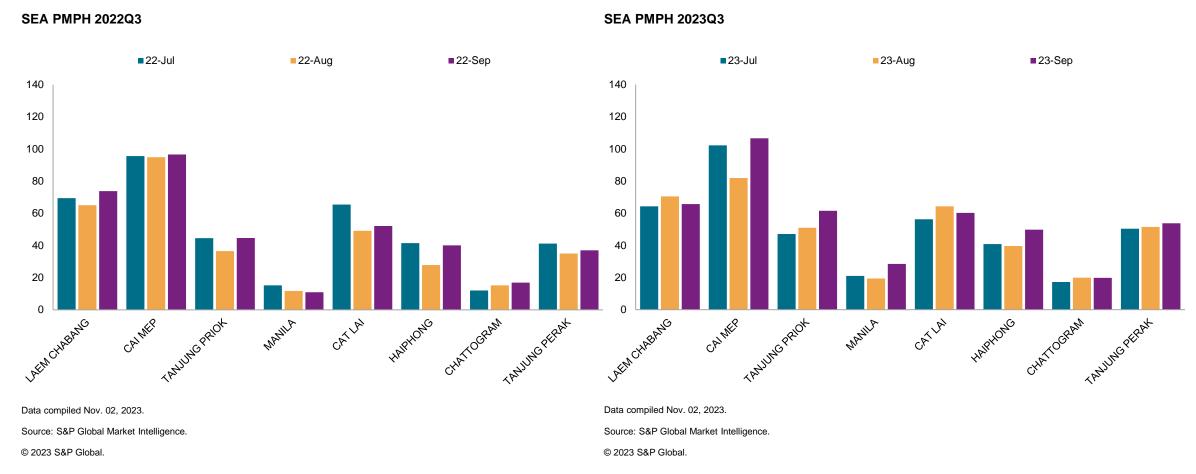
Performance at Chinese ports continued to improve. The main Chinese ports registered a collective improvement of 30% YoY in Port-Moves-Per-Hour in 2023Q3



^{*}Port-Moves-Per-Hour (PMPH) is the quantity of containers moved per hour a vessel is in port. The higher the number the more efficient the port



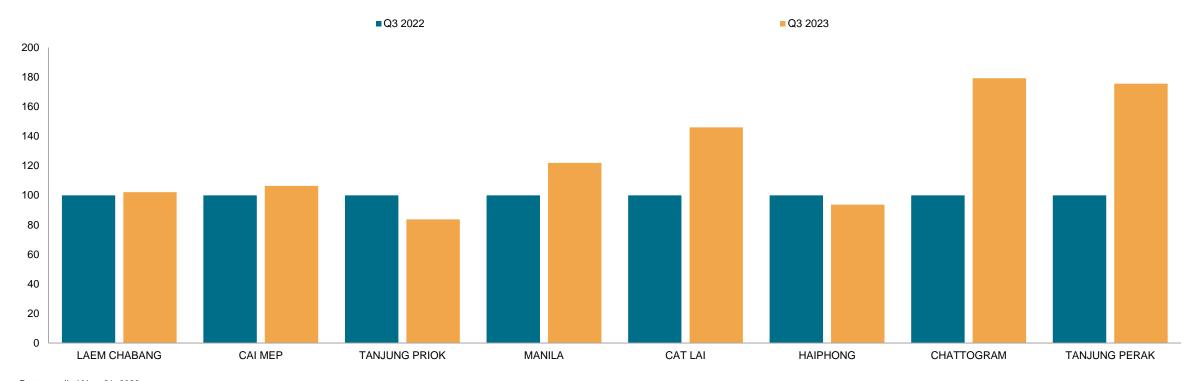
Large gateway ports at alternative sourcing locations in Southeast Asia registered YoY improvement in productivity



^{*}Port-Moves-Per-Hour (PMPH) is the quantity of container moved per hour a ship is in port. The higher the number the more efficient the port

Container Moves on ocean going ships increased at most Southeast Asian gateways, indicating the ongoing rise of the region as an attractive sourcing destination

Container Moves Development Southeast Asia, Index-based reporting Q3 2022 = 100



Data compiled Nov. 21, 2023.

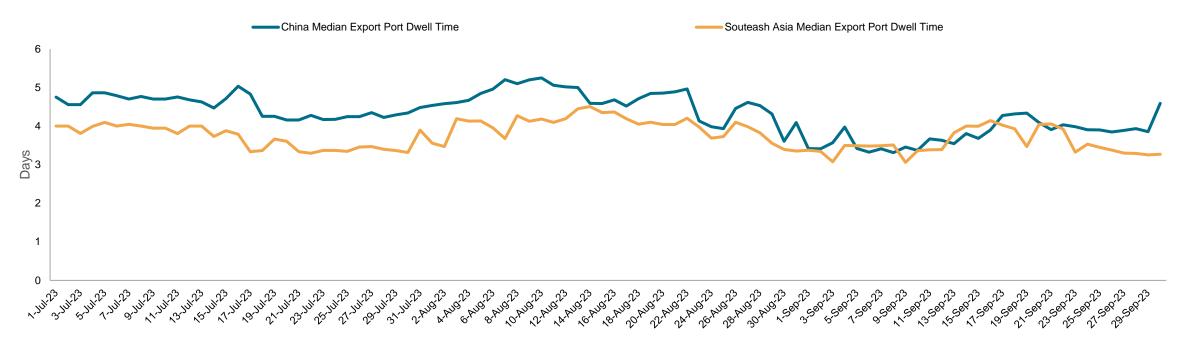
Source: S&P Global Market Intelligence.

^{*}Total Container Moves. Load + discharge + re-stowage moves (excludes hatch covers, gear boxes, etc.)



Container Dwell Times at Southeast Asian ports were generally ahead of Chinese counterparts over 2023Q3

Asia Median Port Dwell Time Development



Data compiled Nov. 07, 2023.

Source: S&P Global Market Intelligence.

^{*}Export Dwell Time is the elapsed time in days from Gate-In to loading on the ship



About S&P Global Market Intelligence

S&P Global Market Intelligence integrates financial and industry data, research, and news into tools that help track performance, generate alpha, identify investment ideas, understand competitive and industry dynamics, perform valuation, and assess risk.

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Appendices

Port Groupings

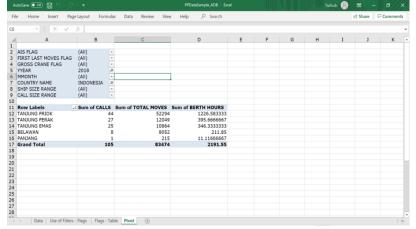
US West Coast	US East Coast	US Gulf	China	Southeast Asia
Los Angeles	Miami	Port Freeport	Yangshan	Cai Mep
Long Beach	Port Everglades	Houston	Yantian	Cat Lai
Hueneme	Jacksonville	New Orleans*	Qingdao	Haiphong
Oakland	Savannah	Mobile	Ningbo	Tanjung Priok
Tacoma	Charleston	Port Tampa Bay	Xiamen	Tanjung Perak
Seattle	Wilmington		Hong Kong*	Chattogram
	Port of Virginia*			Manila
	Baltimore			Laem Chabang
	Philadelphia			
	New York & New Jersey			

^{*}Excluded from the Anchorage time and PMPH charts

Port Performance Program: Advanced Analytics

Benchmark global container port and terminal performance with empirical data





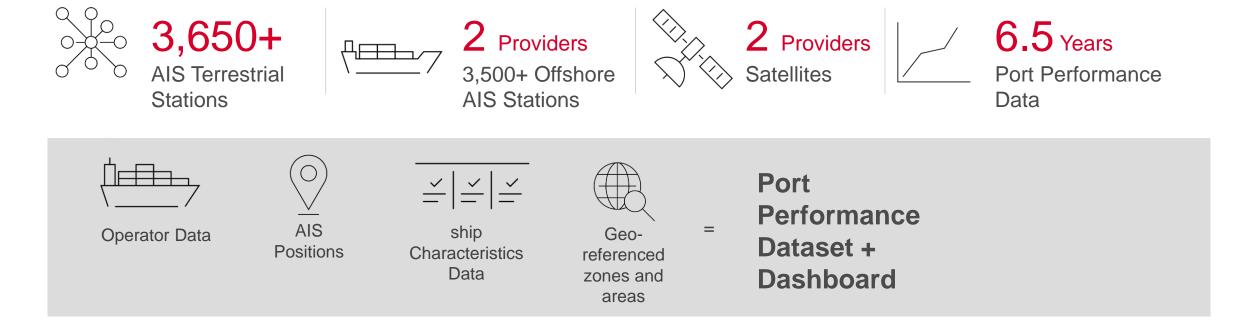
- PORT Time Performance

 | Incompared | Support | Country | Support | Support
- CALL SIZE RANG AIS FLAG FIRST LAST MOVES FLAG 14,000 & OVER 1,000-2,999 14,000 & OVER TANJUNG PRIOR 1 INDONESTA 1 THAILAND SIAM SEAPORT 0-5.399 1 PHILIPPINES MANILA 0-5,399 0-5,399 0-5,399 0-999 0-999 0-999 0-999 1,000-2,999 0-5,399 BANGKOK 0-5,399 0-5,399 0-5,399 1 THAILAND BANGKOK TANIUNG PRIOR 1 PHILIPPINES MANTLA 5,400-9,999 CAT LAI 0-5,399 0-5,399 0-5,399 0-5,399 TANJUNG EMAS 0-5,399 0-999 0-5,399 0-5,399 0-5,399 1 THAILAND 1 THAILAND LAEM CHABANG 1 THAILAND 0-5,399 0-999 1 VIETNAM 1 VIETNAM 0-5,399 0-5,399

- Container port and terminal performance benchmarking system
- Dataset and tableau dashboard with built in analytics
- Compare port and terminal performance on multiple metrics
- Global coverage: 1000 terminals in 500 ports in all world regions

Operator data mapped to AIS Positions and Movements Data

Combination of carrier data and AIS increases accuracy, range and granularity of metrics



Granular visibility into performance at 500 container ports and 1000 container terminals worldwide