

Carrier Evolution







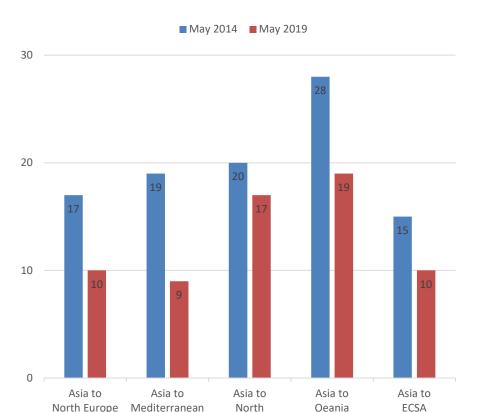


Market Issue



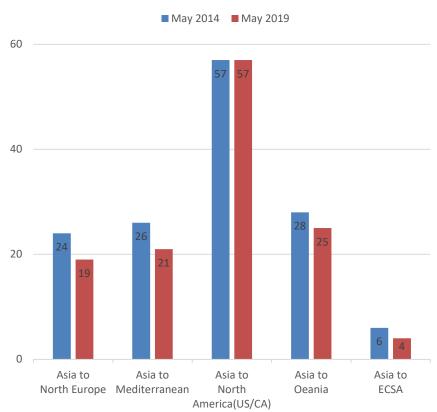
- Global Container Carrier Trend

1) Number of Containership "Operators"



America(US/CA)

2) Number of Containership "Services"



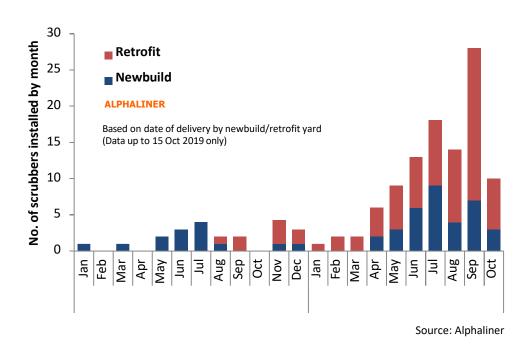
- The number of Containership operators has been decreasing gradually during May 2014~2019.
- Mostly, the number of Containership services on North Europe & Mediterranean showed be declining.

Scrubber Planned Installation



Chart of the week



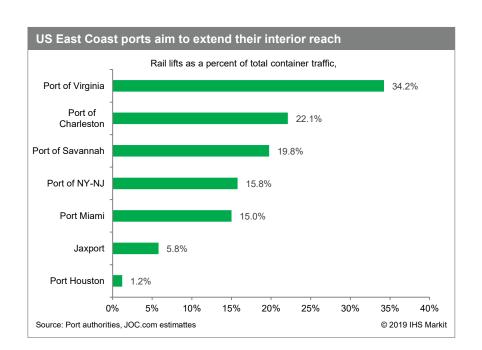


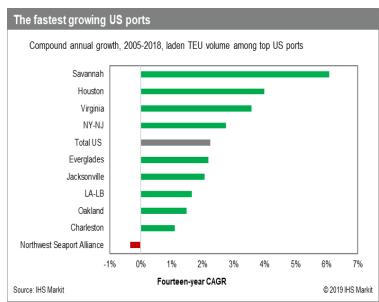
By January 2020, the headcount of scrubber-fitted containerships is expected to reach more than 260 vessels for a total capacity of over 2.30 Mteu. This represents 10% of the global container ship fleet in capacity terms. Alphaliner expects this to hit 5.00 Mteu by the end of next year.

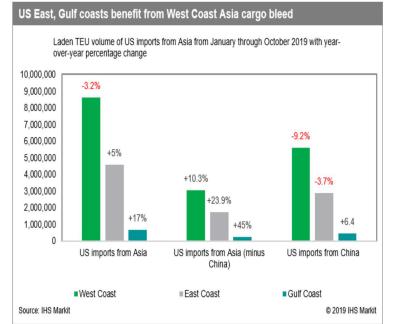
Sourcing & Distribution Shift Accelerating



- Gulf and Southeast ports consistently see the fastest growth among US ports
- Consistent above-average results due to a number of factors, including:
 - State operated terminals/operating port model able to drive highest US productivity levels
 - Longstanding, positive longshore labor relations
 - Chronic West Coast port disruption or the specter of this, continuing into 2019



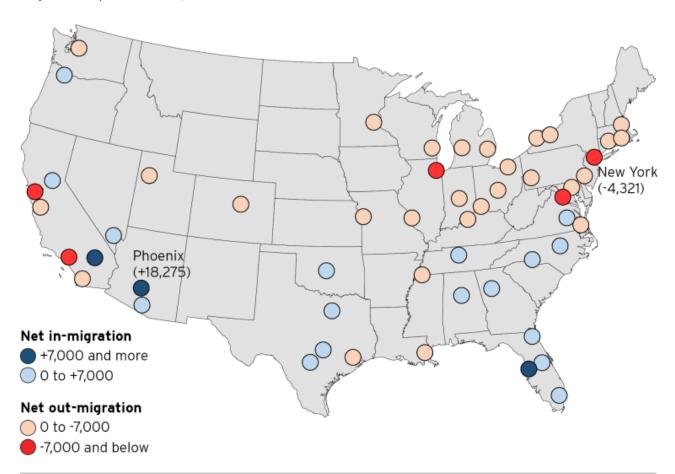




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Where seniors are moving: Annual net migration of residents ages 55+

Major metropolitan areas, 2012-2017



Source: William H Frey analysis of "residence one year ago" data from 5 year ACS, 2013-2017 (released December, 2018)





TABLE 2

Average annual net migration, ages 55+, major metro areas

53 metro areas with populations exceeding 1 million

Greatest net migration gains						
	2004 - 2007		2007 - 2012		2012 - 2017	
1	Phoenix	16,783	Phoenix	16,077	Phoenix	18,275
2	Atlanta	9,449	Riverside	9,303	Tampa	8,570
3	Dallas	8,641	Tampa	6,863	Riverside	8,081
4	Tampa	7,766	Austin	3,934	Las Vegas	6,864
5	Houston	5,941	Atlanta	3,773	Jacksonville	5,060

	Greatest net migration losses						
	2004 - 2007		2007 - 2012		2012 - 2017		
1	New York	-46,596	New York	-34,296	New York	-45,321	
2	Los Angeles	-31,918	Los Angeles	-17,229	Los Angeles	-20,538	
3	New Orleans	-17,354	Chicago	-12,324	Chicago	-18,791	
4	Chicago	-13,709	Washington DC	-6,985	Washington, D.C.	-12,503	
5	Washington, D.C.	-12,336	San Francisco	-5,718	San Francisco	-8,693	



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Where young adults are moving: Annual net migration of residents ages 25 to 34 Major metropolitan areas, 2012-2017

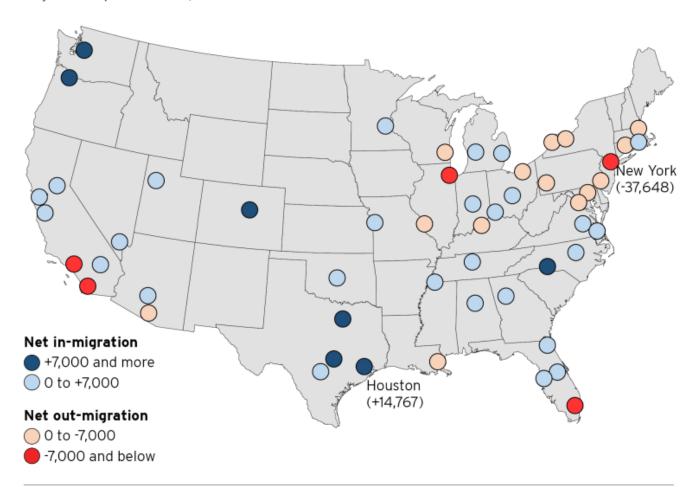




TABLE 1

Average annual net migration, ages 25 to 34, major metro areas

53 metro areas with populations exceeding 1 million

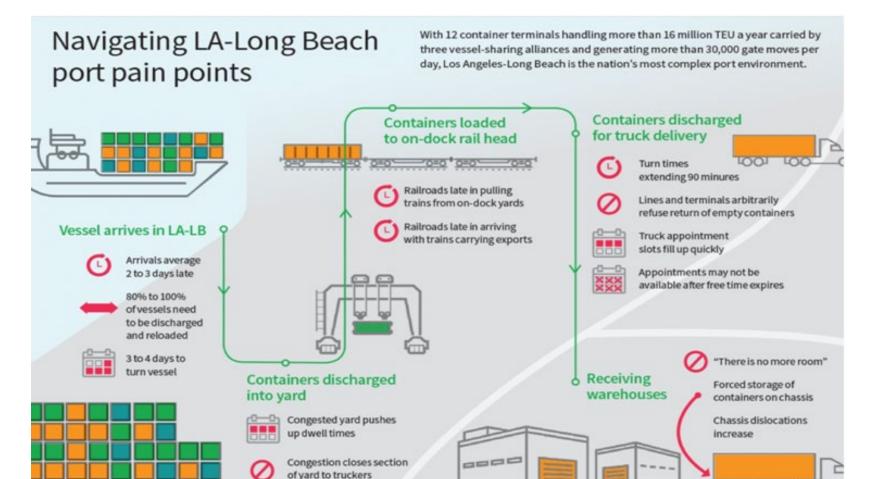
Greatest net migration gains						
	2004 - 2007		2007 - 2012		2012 - 2017	
1	Riverside	23,147	Denver	11,359	Houston	14,767
2	Phoenix	14,220	Houston	9,981	Denver	12,667
3	Atlanta	12,167	Washington, D.C.	9,814	Dallas	12,665
4	Houston	10,992	Austin	8,503	Seattle	11,244
5	Charlotte	9,273	Seattle	7,652	Austin	8,933

Greatest net migration losses							
	2004 - 2007		2007 - 2	2007 - 2012		2012 - 2017	
1	Los Angeles	-53,795	New York	-20,608	New York	-37,648	
2	New York	-44,673	Los Angeles	-19,694	Los Angeles	-18,722	
3	New Orleans	-18,626	San Diego	-7,419	Chicago	-13,757	
4	Miami	-15,208	Chicago	-6,568	San Diego	-7,080	
5	Chicago	-13,859	Detroit	-6,153	Miami	-7,000	



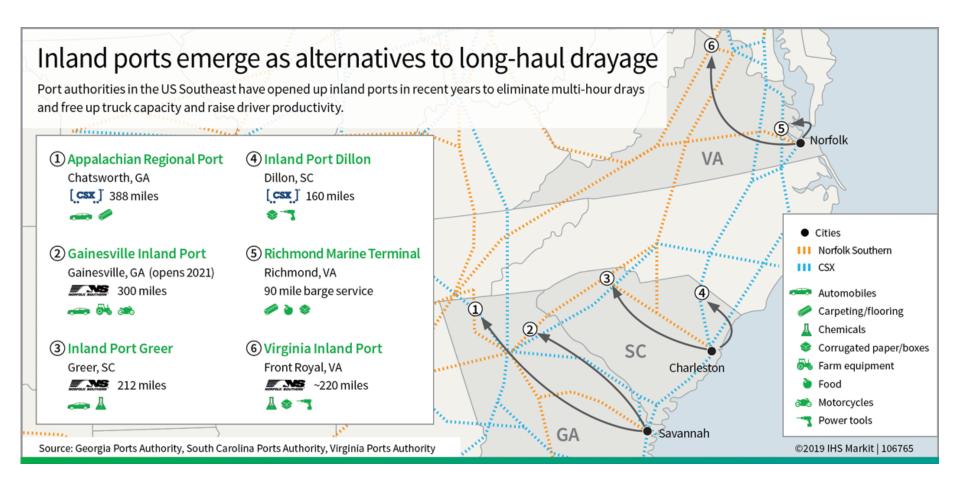


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Source: IHS Markit









(Source: American Shipper)