



THE PORT

Alabama State Port Authority

www.asdd.com

LARGER SHIPS *Welcome.*



Lower Harbor – 45 ft. Draft
Larger Cape and Post-Panamax Ships
Containers / Steel / Coal

Intermodal Investments
Container Terminal / ICTF / Logistics

Upper Harbor – 40 ft. Draft - Panamax Ships
General & Bulk Cargoes
Metals / Forest Products / Petroleum
Frozen Poultry / Grain / Coal

5 National Railroads
3 Short Line Railroads
Interstates / I-65 & I-10

Inland Waterways Via
Tennessee-Tombigbee

PRODUCTS HANDLED AT THE PORT OF MOBILE

- **Exports:** Alabama Metallurgical Coal, Machinery, Forest Products Iron/Steel Products, Frozen Poultry, Grain, Petroleum Products, and Chemicals.
- **Imports:** Automotive & Aviation Components, Thermal Coal, Pig Iron, Wind Energy Components, Metals, Forest Products, Consumer Goods, Home Décor, Petroleum, Cement/Aggregates, and Chemicals.

PORT OF MOBILE ECONOMIC IMPACT

Cargo and Vessel Activity Impacts for Alabama Alone

- **Alabama State Port Authority Generates:**
 - ✓ 134,608 direct and indirect jobs
 - ✓ \$486.9 million in direct/induced/indirect tax impact
 - ✓ Total Economic Value \$22.4 Billion

- **Port of Mobile Private Terminals (Participating) Generate:**
 - ✓ 18,670 direct and indirect jobs
 - ✓ \$81.1 million in direct/induced/indirect tax impact
 - ✓ Total Economic Value \$2.7 Billion



16% Growth in Steel Trade

20% Growth in Container Trade



9% Growth in Forest
Products Trade



ASPA Fiscal Year 2017



THE PORT
Alabama State Port Authority
www.asdd.com

LARGER SHIPS
Welcome.

BULK SHIP SIZES

HANDYSIZE • 10,000-40,000DWT



HANDYMAX • 40,000-60,000DWT



PANAMAX • 60,000-80,000DWT

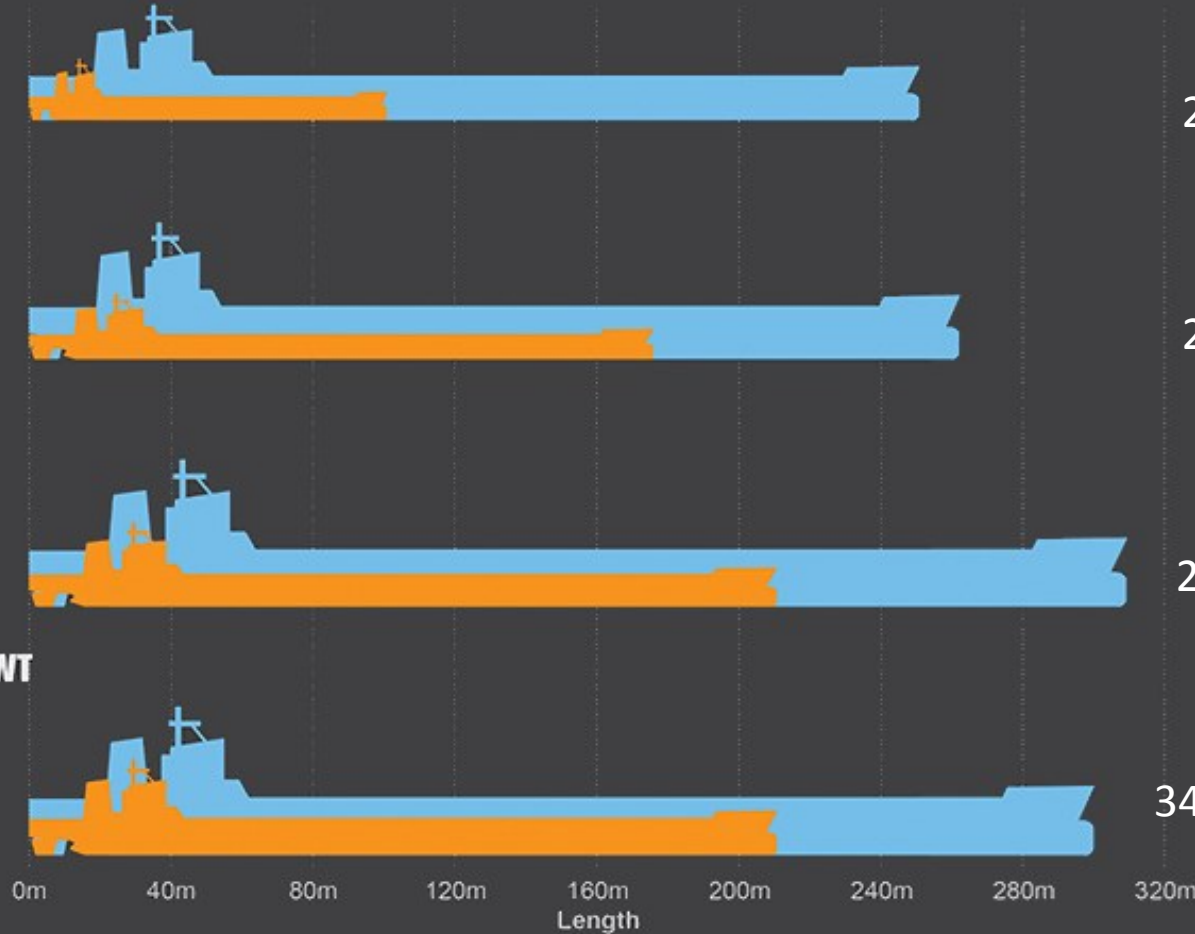


POST-PANAMAX • 80,000-110,000DWT



0m 20m 40m 60m
Beam

Depth



moffatt & nichol

Req. Depth

20.9 ft. – 39.4 ft.

22.9 ft. – 47.2 ft.

27.9 ft. – 49.9 ft.

34.1 ft. – 52.5 ft.

Minimum size
Maximum size



Panamax Bulk
Carriers Call the
Port Today

LARGER SHIPS *Welcome.*



THE PORT

Alabama State Port Authority

www.asdd.com

CONTAINERSHIP SIZES

CONVERTED CARGO VESSEL • <800TEU



CELLULAR CONTAINERSHIP • 1,000-2,500TEU



PANAMAX • 3,000-4,000TEU



POST-PANAMAX • 4,000-5,000TEU



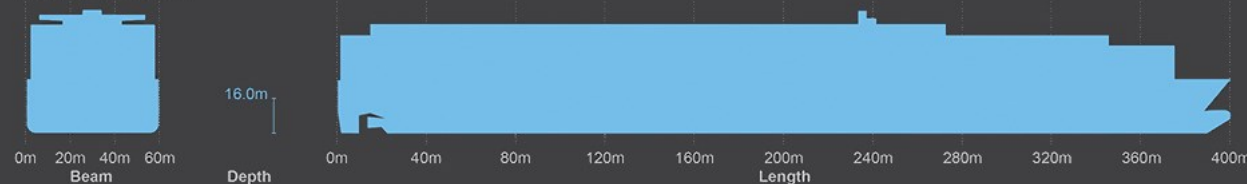
POST-PANAMAX PLUS • 5,000-8,000TEU



ULCS • 11,000-14,500TEU



TRIPLE-E • 18,000TEU



21.6 ft. – 26.2 ft.

22.9 ft. – 36.1 ft.

34.4 ft. – 41.0 ft.

36.1 ft. – 45.9 ft.

39.4 ft. – 48.0 ft.

8000+ TEU Ships
Call the Port Today

39.4 ft. – 52.5 ft.

52.5 + ft.

LARGER SHIPS *Welcome.*



THE PORT
Alabama State Port Authority
www.asdd.com

HARBOR MODERNIZATION



- Current Dimensions – Year Round
 - ✓ 45 ft. (13.7 m) Deep
 - ✓ 400 ft. (121.9 m) Wide
- 3x3x3 Waiver – More than Half Way Finished with the 4-Year Study.
- Draft SEIS Public Comment Period Closed September 17 - Record of Decision Due December 2019
- Study Focus
 - ✓ Depth of 50 (15.24 m)
 - ✓ Length 3 mile (4.8 km) 100 ft. (152.4 m) Widening to create a passing lane
 - ✓ Bend Easing (Upper Bar Channel)
- Provides Economy of Scale to Shippers
- Improves Safety and Vessel Efficiencies



THE PORT

Alabama State Port Authority
www.asdd.com

Efficiency:
WE WEAR IT WELL.

ENVIRONMENTAL CONSIDERATIONS

FISHERIES ASSESSMENT

Understand relationships between salinity and fish populations to predict potential impacts. Conducted spring/summer fish sampling.

OYSTER MODELING

Map existing oyster reefs and determine larvae distribution patterns throughout the Bay. Evaluate potential impacts to oysters based on the predictive water quality and hydrodynamic models.

SUBMERGED AQUATIC-VEGETATION (SAV) ASSESSMENT AND MAPPING

Identify and map distribution of existing sea grasses to establish baseline used in determining potential impacts based on water quality model results.

WETLAND ASSESSMENT AND MAPPING

Identify and map the distribution of existing wetland communities to understand potential impacts based on water quality model results

BENTHIC COMMUNITY ASSESSMENT

Establish baseline conditions to analyze impacts to benthos from water-quality and saltwater intrusion based on information obtained through water-quality modeling



ENVIRONMENTAL CONSIDERATIONS

CLASSIFY SUBSURFACE CONDITIONS

Compile and evaluate all existing subsurface data for the navigation channel sediments. Collect additional subsurface samples/borings to determine sediment composition and potential contamination.



SHIP WAKE ANALYSIS

Estimate increases in waves and associated effects due to future ship traffic.

SEDIMENT TRANSPORT MODELING

Collect baseline data and develop hydrodynamic and sediment transport models to characterize the physical conditions and sediment transport processes of the study area.

Data Collection Parameters

- Average along stream velocity
- Water level (NAVD88)
- Turbidity
- Salinity
- Temperature
- Automatic sampling for Total Suspended Solids
- Wave height (ship wake)

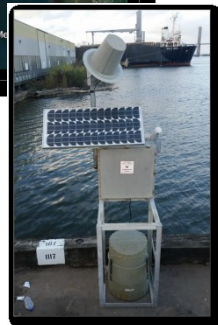


ENVIRONMENTAL JUSTICE ISSUES

Evaluate the impacts to human and social environments. This will also include impacts from air quality and noise pollution.

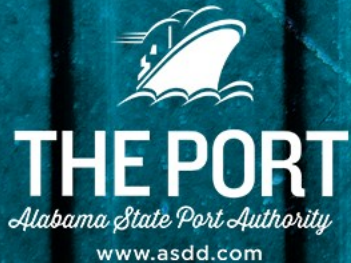
CULTURAL RESOURCES

Evaluate potential impacts to Historic Properties in compliance with the National Historic Preservation Act.



DRAFT STUDY FINDINGS

- EST. PROJECT COSTS: \$387.8 MILLION – STATE SHARE \$143 MILLION
 - ✓ ANNUAL NET BENEFITS OF APPROX. \$34.5 MILLION
 - ✓ BENEFIT COST RATIO 3.0
- SHIP WAKE ANALYSIS – WITH- & WITHOUT-PROJECT CONDITION
 - ✓ WITH PROJECT INDICATES A REDUCTION IN VESSEL GENERATED WAVE ENERGY COMPARED TO CURRENT CONDITIONS
- SEDIMENT TRANSPORT WITH- & WITHOUT-PROJECT CONDITION
 - ✓ WITH PROJECT INDICATES NO DISCERNABLE NET EROSION OR NET DEPOSITION
- ENVIRONMENTAL JUSTICE ISSUES
 - ✓ WITH PROJECT HAS NO DISPROPORTIONATELY HIGH OR ADVERSE IMPACTS TO COMMUNITIES
- AQUATIC RESOURCES
 - ✓ NO SUBSTANTIAL IMPACTS (WATER QUALITY, VEGETATION, FISH & OYSTERS, WETLANDS, & BENTHIC)
- CULTURAL RESOURCES – RESULTS PENDING



LARGER SHIPS
Welcome.

MOBILE HARBOR GENERAL REEVALUATION REPORT (GRR)

STAY INFORMED

USACE PROJECT WEBSITE – LISTSERVE

WWW.SAM.USACE.ARMY.MIL/MISSIONS/PROGRAM-AND-PROJECT-MANAGEMENT/CIVIL-PROJECTS/MOBILE-HARBOR-GRR/

Follow on...



FACEBOOK.COM/USACEMOBILE



TWITTER.COM/USACEMOBILE



INSTAGRAM.COM/USACEMOBILE



THE PORT

Alabama State Port Authority

www.asdd.com

LARGER SHIPS
Welcome.

Alabama State Port Authority Port of Mobile Modernization Thank you!

Judith Adams, Vice President, Marketing
+1 251.441.7003 / jadams@asdd.com

@AlabamaStatePortAuth

@ASPAJAdams



Southern Section
Air & Waste Management Association
June 8, 2018



LARGER SHIPS
Welcome.