R/V Savannah Mid-life Refit
Vessel Build

- Delivered to Skidaway in September 2001 (22 yrs ago)
- $3.1 Million project funded by:
  - USG BOR – Capital Improvement
  - NSF – ship supplied equipment grant
  - SkIO institutional funds
- 92’ LOA
- 27’ beam
Planning Timeline

2017
First pitch to UGA and BOR

2018
Ship Advisory Committee
Science Advisory Committee

2019
Condition Survey - LP&A
1st State budget request

2020
Commitment from UGA for 1:1 match with SKIO funds

2021
Design and engineering contract executed with C-Job

2022
State B-budget award $2M
D&E phase
Shipyard RFP
Procurement
**Major Projects**

**Service Life Extension**
- Main engine and transmissions
- Generators
- Main switchboard
- Bow thruster
- Tank/bilge resurfacing
- Pipe replacement
- HVAC modifications

**Mission Enhancements**
- Main deck extension
- A-frame modifications
- J-frame modifications
- Transducer well modifications
- Accommodation upgrades
- Lab upgrades
- Dynamic Positioning (DP1)
Engine Room

- Mains CAT C18
- Gens CAT C4.4 118 kW

Removal/installation concept 1

Engine room STB profile overhead
Stern Extension 12’

Glosten and Associates draft design

Current transom

20’ Van
Stern Extension 12’

20’ Van

Existing transom

Glosten and Associates draft design
Water line changes – Cause for concerns with slamming

As build

12’ extension
## Mid-Life Refit Cost Estimate Summary

February 3, 2022

<table>
<thead>
<tr>
<th>Description</th>
<th>Total Detail</th>
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<tbody>
<tr>
<td>Design and Engineering - Naval Architect</td>
<td>$ 450,000</td>
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<tr>
<td>Dry Dock Maintenance Work</td>
<td>$ 559,650</td>
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<tr>
<td>Service Life Extension Work</td>
<td>$ 1,525,014</td>
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<tr>
<td>Mission Enhancements</td>
<td>$ 1,287,033</td>
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<tr>
<td>20% mark up for change orders and expected overages</td>
<td>$ 764,339</td>
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<tr>
<td>Total Project Estimate</td>
<td>$ 4,136,036</td>
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## Funding

- Current support $4.6M – recall build was $3.1M
  - NSF
  - University of Georgia
  - State Funds
  - Ship and SkIO Internal Funds

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
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<tbody>
<tr>
<td>State B-Budget Award</td>
<td>$2 M</td>
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<tr>
<td>UGA Internal Support</td>
<td>$1.3 M</td>
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<tr>
<td>Ship Ops MOSA and NSF</td>
<td>$1.3 M</td>
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<tr>
<td><strong>Total Budget</strong></td>
<td><strong>$4.6M</strong></td>
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Timeline – Shipyard Period

2019

Vessel Condition Survey

2020

2021

D&E RFP

D&E C-Job

2022

2023

SY RFP

2024

Procurement

Shipyard

D&E Contract Executed C-Job

14 April 2022
Acknowledgements

• State of Georgia

• University of Georgia

• NSF – Rose Dufour

• RV Connecticut – Turner Cabaniss

• RV Pelican – Joe Malbrough

• RV Virginia – Duran Ward and Keith Mayer