What is ShoreZone?

A coastal imaging, mapping, and habitat database.
How is ShoreZone used?

- Modelling
- Emergency response and risk management
- A database for managing the shore
- Habitat Inventories
- Coastal Vulnerability
Acquiring imagery

- During extreme low tides
- High sun angle
- Low-altitude oblique angle
- Images are geo-referenced (x, y, z)
Acquiring imagery

Kalen Morrow at 2:15 pm
# Ground Verification

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Start Latitude</th>
<th>Start Longitude</th>
<th>End Latitude</th>
<th>End Longitude</th>
<th>Manganese Width (m)</th>
<th>Slope Category</th>
<th>Acreage (A)</th>
<th>Substrate Category/Cover/Dist</th>
<th>ORI Category</th>
<th>Primary</th>
<th>Secondary</th>
<th>Tertiary</th>
<th>Biobands</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.25</td>
<td>56°15'59.0&quot;N</td>
<td>158°14'50.2&quot;W</td>
<td>56°15'59.0&quot;N</td>
<td>158°14'50.2&quot;W</td>
<td>1</td>
<td>15</td>
<td>20</td>
<td>Primary</td>
<td>Secondary</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>WO</td>
</tr>
</tbody>
</table>

**Slope Categories:**
- 1: Flat (0-1 deg)
- 2: Low Incline (2-5 deg)
- 3: Moderate Incline (6-10 deg)
- 4: High Incline (11-20 deg)
- 5: Steep (21-45 deg)
- 6: Very Steep (>46 deg)

**Substrate Categories:**
- 1: Rock
- 2: Block
- 3: Cobbles
- 4: Pebbles
- 5: Sand (Coarse)
- 6: Sand (Fine)
- 7: Mud/Clay
- 8: Gravel
- 9: Peat
- 10: Shell
- 11: Wood
- 12: Coral
- 13: Other Organic
- 14: Impervious Metal
- 15: Impervious Concrete
- 16: Anthropogenic Impervious Wood
- 17: Other Anthropogenic Impervious
- 18: Permeable Concrete
- 19: Permeable Anthropogenic Wood
- 20: Permeable Plastic
- 21: Permeable Misc. Debris
- 22: Other Anthropogenic Permeable
- 23: Vegetated (Obscured)
- 24: Other Obscured

**Substrate Cover Categories:**
- 1: 65%
- 2: 5-25%
- 3: 26-50%
- 4: 51-75%
- 5: 76-95%
- 6: 0-15%
- N: Not Assessed

**Distribution Codes:**
- 1: single
- 2: low
- 3: patchy
- 4: uniform
- 5: continuous
- 6: dense
- 7: undefined (not assessed or not applicable)
Habitat Attribute Classification

- Wave exposure
- Geomorphology
- Sediment characteristics
- Shoreline biology
- Habitat classification
- Cultural features
Physical ShoreZone mapping

- Coastal Class 25
- Sand/Pebble Beach
- Coastal Class 14
- Rock Cliff with Boulder/Sand Beach

- Sarah Cook at 2:30 pm
- Carl Schoch at 2:45 pm
Physical ShoreZone mapping

[Map and chart showing various shorelines and shore type groups with corresponding lengths and percentages.]
## ShoreZone Data Entry Web App

### Unit Data Table

| UnitID   | Date       | Phy Ident | Region | Area | Phys. | S. | Type | Mt | Mn | Sec | Geo Mapper | Videotape | Old Sh. | Old ESI | Length (M) | Wave | Pitch | Tid. | STZ | Slope Deg | Orient. | Sed Src | Sed A. | Sed Dr. | Chg Ty. | Shorename |
|----------|------------|-----------|--------|------|-------|----|------|----|----|-----|------------|-----------|---------|--------|------------|------|-------|------|-----|----------|---------|--------|--------|--------|--------|----------|----------|
| 15412    | 10/07/001/0 | 10        | 07     | 0001 | 0     | L  | 12   | 14 | 43 | Deley | SE07_SK_01 | 14 | 5      | 444    | SP  | 25     | X     | N    | X       | S       | Redoubt B |
| 15416    | 10/07/003/0 | 10        | 07     | 0003 | 0     | L  | 12   | 16 | 00 | Deley | SE07_SK_01 | 6  | 8D     | 242    | SP  | 5      | X     | N    | X       | S       | Redoubt B |
| 15417    | 10/07/004/0 | 10        | 07     | 0004 | 0     | L  | 12   | 16 | 06 | Deley | SE07_SK_01 | 22 | 6B     | 114    | SP  | 20     | X     | N    | X       | S       | Redoubt B |
| 15418    | 10/07/005/0 | 10        | 07     | 0005 | 0     | L  | 12   | 16 | 29 | Deley | SE07_SK_01 | 25 | 5      | 963    | SP  | 15     | X     | N    | X       | S       | Redoubt B |
| 15419    | 10/07/006/0 | 10        | 07     | 0006 | 0     | L  | 12   | 16 | 52 | Deley | SE07_SK_01 | 13 | 5      | 95     | SP  | 10     | X     | N    | X       | S       | Redoubt B |
| 15420    | 10/07/007/0 | 10        | 07     | 0007 | 0     | L  | 12   | 16 | 54 | Deley | SE07_SK_01 | 3  | 8A     | 478    | SP  | 4      | X     | S    | X       | S       | Redoubt B |
| 15421    | 10/07/008/0 | 10        | 07     | 0008 | 0     | L  | 12   | 17 | 10 | Deley | SE07_SK_01 | 14 | 5      | 324    | P   | 25     | X     | N    | X       | S       | Redoubt B |
| 15422    | 10/07/009/0 | 10        | 07     | 0009 | 0     | L  | 12   | 17 | 15 | Deley | SE07_SK_01 | 3  | 8A     | 571    | P   | 3      | X     | S    | X       | S       | Redoubt B |
| 15423    | 10/07/010/0 | 10        | 07     | 0010 | 0     | L  | 12   | 17 | 47 | Deley | SE07_SK_01 | 14 | 5      | 472    | P   | 20     | X     | N    | X       | S       | Redoubt B |
| 15424    | 10/07/011/0 | 10        | 07     | 0011 | 0     | L  | 12   | 17 | 56 | Deley | SE07_SK_01 | 24 | 9A     | 115    | P   | 50     | X     | A    | X       | A       | Redoubt B |

### Unit ES Module

**Create Filter**

### Unit Photos

**No data to display**

### XShr Data Table

<table>
<thead>
<tr>
<th>XShrID</th>
<th>Component</th>
<th>Width</th>
<th>Slope</th>
<th>Process</th>
<th>ORI</th>
<th>Comment</th>
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### XShr Shore Modifications

<table>
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### Note

- The ShoreZone Data Entry Web App is used for managing and entering data related to coastal zones. The table and various modules provide detailed information such as unit identification, geographic location, and environmental parameters.
- The app supports filtering and viewing unit photos, which can be useful for visual analysis and verification.
www.ShoreZone.org

• A collaboration with The Nature Conservancy

• Provides centralized location for:
  – the image library
  – habitat database
  – data dictionaries
  – reports
  – protocols

• Supports a Blog, FAQ’s, social media

• Calendar of events
ShoreZone outreach and education
Questions?

Carl Schoch

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