

Shoalwater Bay, Dune Restoration Project Tokeland, WA

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**Semi-Annual Dredging Meeting
14 Jan 2015**



**US Army Corps of Engineers
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Shoalwater Bay



Completed October 2013

Coastal Images/Ron Arel



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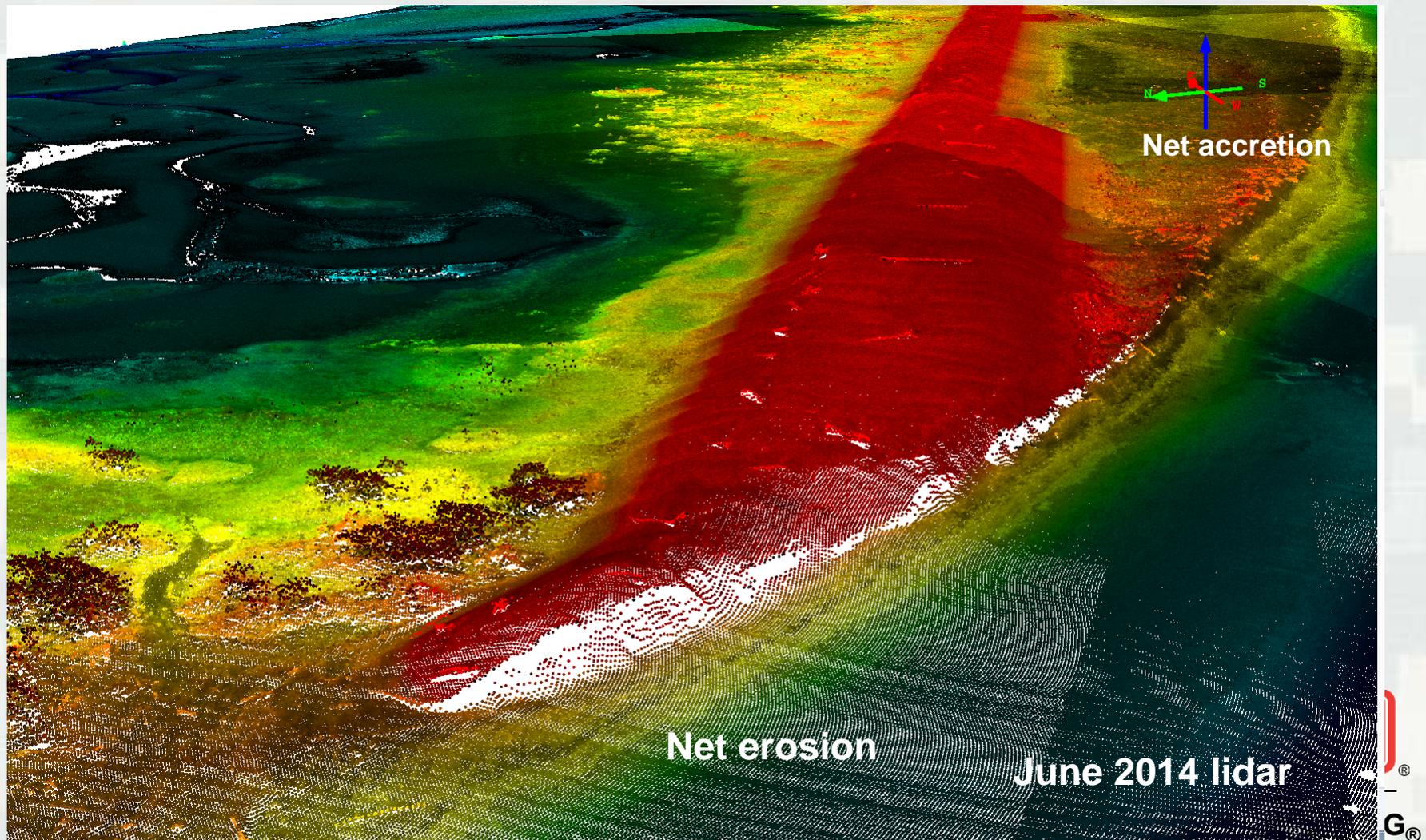
Updates

- **Dune Performance**
- **Monitoring Work**
- **Sand Fence Pilot**



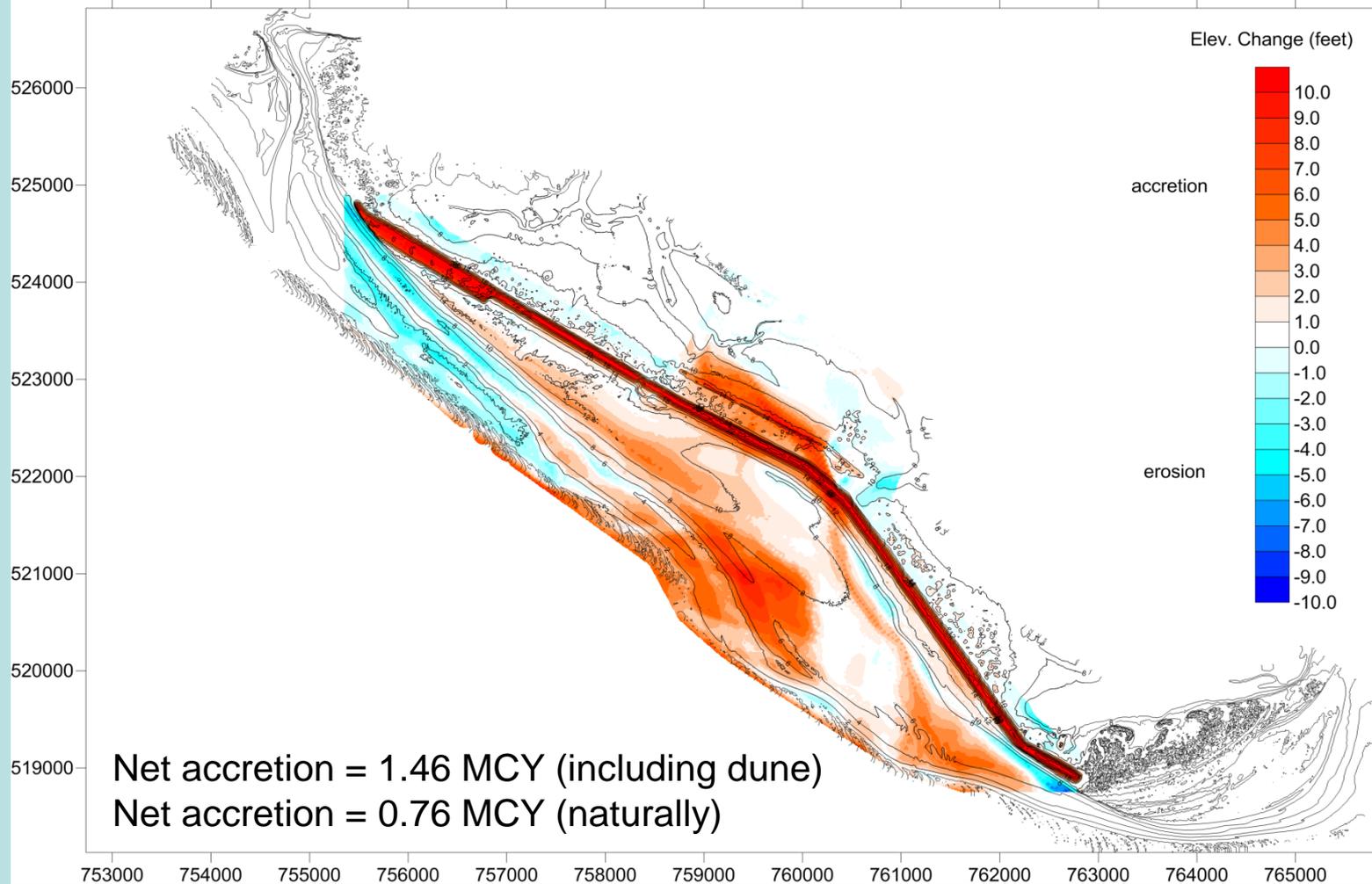
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Dune performance



Accretion areas

June 2014 - June 2012 Elevation Difference



2014-2017 Monitoring

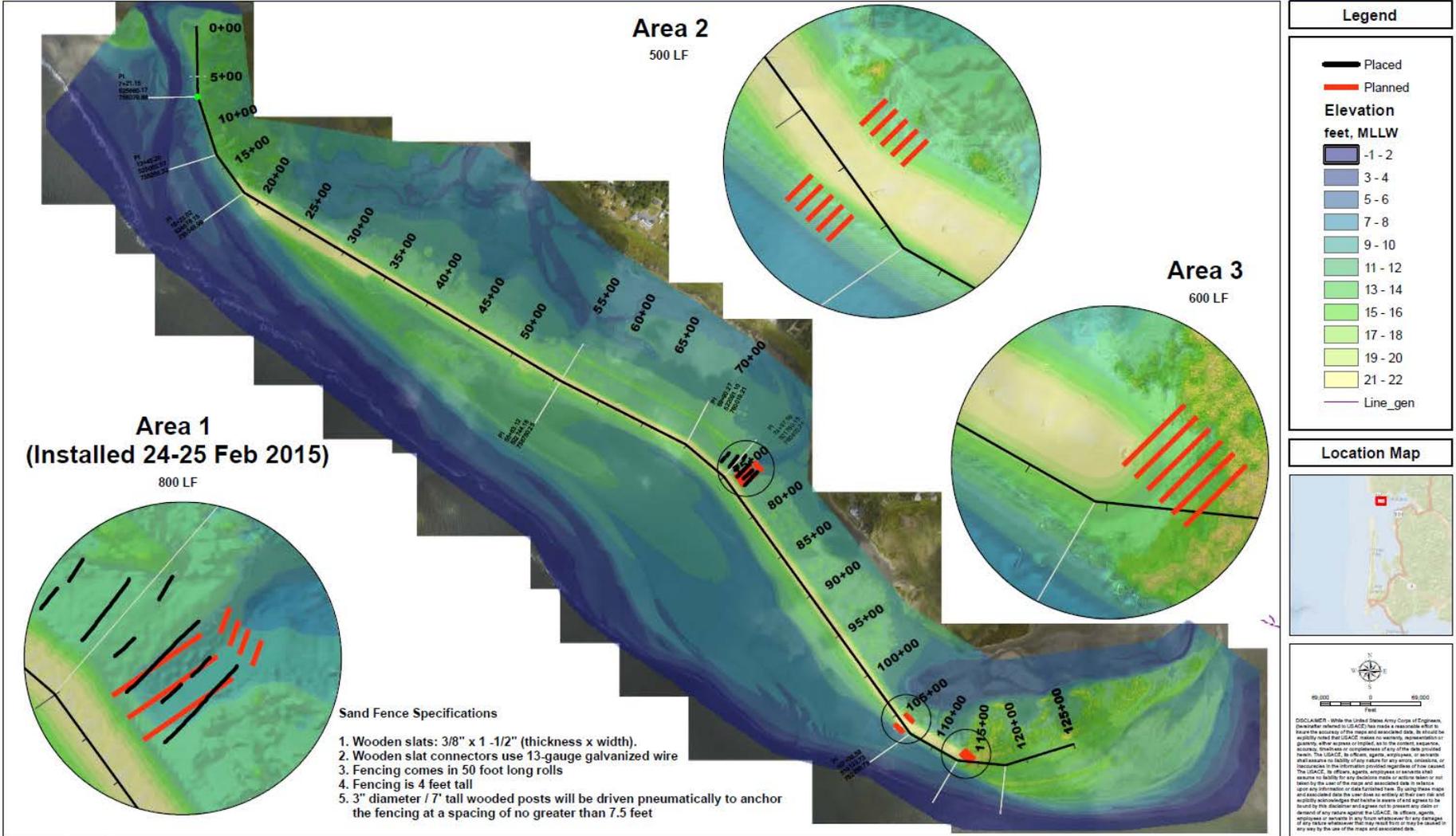
- Co-op agreement with WDoE CMAP group (G. Kaminsky)
- 1st survey completed in September 2014
- 2nd survey completed in April 2015



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Sand Fence Pilot (Feb 2015)

SHOALWATER - SAND FENCE DEMONSTRATION PROJECT



Legend

- Placed (Black line)
- Planned (Red line)

Elevation
feet, MLLW

- 1 - 2
- 3 - 4
- 5 - 6
- 7 - 8
- 9 - 10
- 11 - 12
- 13 - 14
- 15 - 16
- 17 - 18
- 19 - 20
- 21 - 22

Line-gen



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- Sand Fence Specifications**
1. Wooden slats: 3/8" x 1-1/2" (thickness x width).
 2. Wooden slat connectors use 13-gauge galvanized wire
 3. Fencing comes in 50 foot long rolls
 4. Fencing is 4 feet tall
 5. 3" diameter / 7' tall wooded posts will be driven pneumatically to anchor the fencing at a spacing of no greater than 7.5 feet

Sand Fencing

- 4 man crew placed 800 LF of fence in 1.5 days
- Sand was observed to accrete in fence matrix immediately
- Low cost / effective method to build dune height during the Summer months. Could be an effective tool for reducing frequency of dune renourishment
- Plan to install another 1,000 LF of fence in Sep 2015 on SE side of dune





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