

Petroleum Association of Japan

Integration of Vessels of Opportunity

February 28 2013

Prince William Sound Alaska

- **Alyeska Pipeline Ship Escort Response Vessel System (SERVS)**
 - **Program initiated in 1990**
 - **Currently over 400 vessels providing oil spill response support in 6 Alaskan ports**
 - **Annual training of several days both classroom and hands on**
 - **In addition, many vessel participate in drills and exercises as well as spills**



Valdez Alaska 2012



Deepwater Horizon

Vessel Of Opportunity Program



Initiated April 24 2010

Vessel Of Opportunity Program

Vessels Were Accepted In the Program If Three Conditions Were Met:

- Contract Directly Between Vessel Owner and BP**
- Vessel of Opportunity Crews Attended Training**
- Vessel Safety Inspection Was Completed**

Vessel of Opportunity Program - Contract

Based on The Alaska Fishing Vessel of Opportunity Program Contract

- **Program In Effect For Over 20 Years**
- **14 Pages**
- **25 Articles**
- **3 Exhibits**

Vessel of Opportunity Program -Contract

25 Articles

- 1 -Terms of Charter
- 3 - Performance of Voyages
- 5 - Description of Vessel
- 7 - Radio Communications
- 9 - Maintenance of Vessel
- 11- Port, moorage fees
- 13 - Insurance**
- 15 - Charter Not a Demise
- 17 - Vessel Owner Independent
- 19- Choice of Law
- 21 - Assignment/Subcontracting
- 23 - Severability
- 25 - Priority of Terms
- 2- Employment and Services of Vessel
- 4- Operation in Compliance With Law
- 6 - Manning Requirements**
- 8 - Vessel Provisions
- 10 - Hire
- 12 - Breakdowns, Deficiencies
- 14 - Salvage
- 16 - Charter's Use of Vessel
- 18 - Notice
- 20 - Audit and Termination
- 22 - Waiver
- 24 - Entire Agreement; Successors

Vessel of Opportunity Program Contract

3 Exhibits

A – Compensation and Published Rate Schedule

B – Vessel Information

C - Agreement Regarding Proprietary And Confidential Information

Vessel of Opportunity Program - Training

***Basic* Crewmember Classroom Training, Approximately 4 Hours based on International Maritime Organizations Modules**

- Health and Safety**
- Oil Spill Properties Fate and Behavior**
- Oil Boom Use and Oil Boom Failures**
- Storage and Transportation of Recovered Oil**
- Use of Absorbing Materials**

Subsequently Replaced With BP Developed Training Modules

Hazardous Waste Operations Technicians

Training and Certification of Local Fisherman



Vessel of Opportunity Program - Safety

Assurance of Vessel Seaworthiness

- Use of Workboat Vetting Checklist Initially Proposed**
- U.S. Coast Guard Dockside Courtesy Examination Implemented Next**
- Vessel Owner Self Assessment Basic Safety Checklist Completion With U.S. Coast Guard On Water Boarding Inspections**

Vessel of Opportunity Program

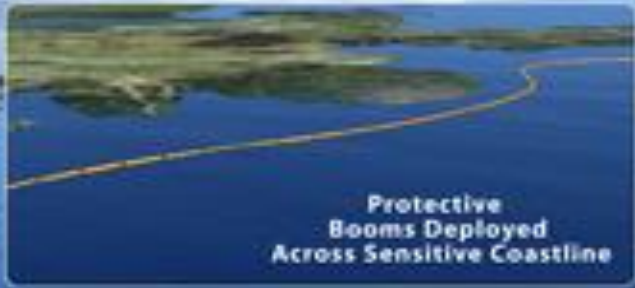
- **Once Vessels Were Under Contract**
 - **Considered For Hire on an as needed basis**
 - **Selected based on criteria and suitability for anticipated mission**
 - **Having a contract was not a guarantee of work**
 - **Many more vessels were contracted than worked**



	Contracted	Worked
Mobil	6,229	3,467
Houma	3,820	1,388



Concept of Operations Oil Spill Response



Spotter/Observer

Dispersant

Free Oil Recovery

Aircraft

Skimming

Vessels

Controlled Burning
Successfully Deployed

Off Shore Operations

- Mechanical Containment and Oil Recovery
- Dispersant Application
- **In Situ Burning**



In Situ Burning Operations



More than 400 in-situ burns conducted
265,000 – 311,000+ barrels oil removed by in-situ burns



Nearshore Operations

- **Skimming/Recovery Operations**
- **Offloading Barges**
- **Decontamination**

Bays/Beach Operations

- **Boom & Barrier Establishment**
- **Wildlife Capture and Recovery**
- **Transport Clean-up Personnel**
- **Containment/Recovery**
- **Shoreline Cleanup Assessment Teams**

A background image showing a vast blue ocean under a blue sky with light, wispy clouds. The sun is visible on the left side, creating a bright reflection on the water's surface.

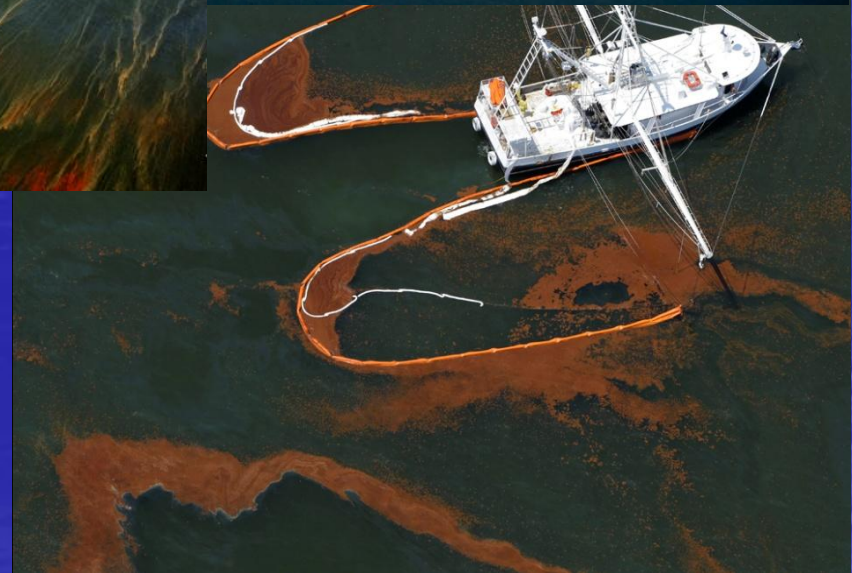
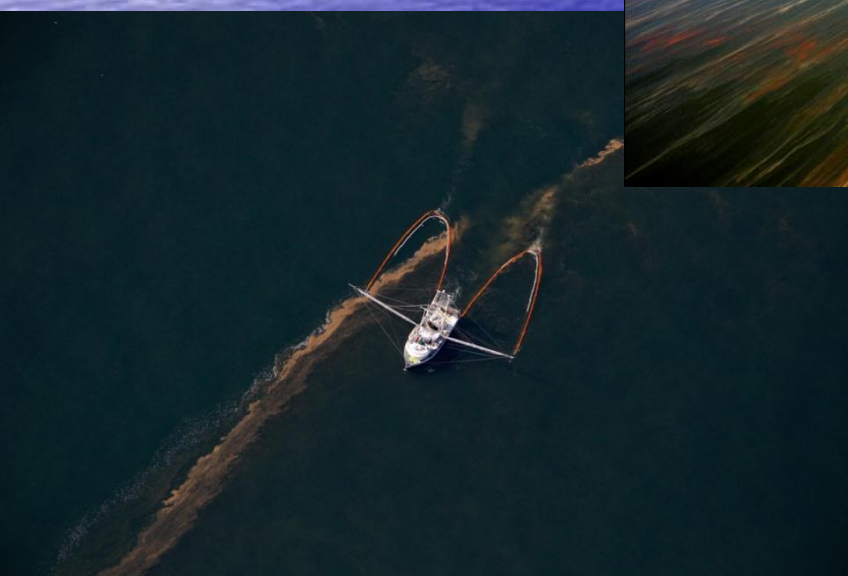
Fishing Vessel Skimming Branch

Vessel Suitability



First Vessel Visit 27 April

Vessels of Opportunity - Oil Recovery Initial Response





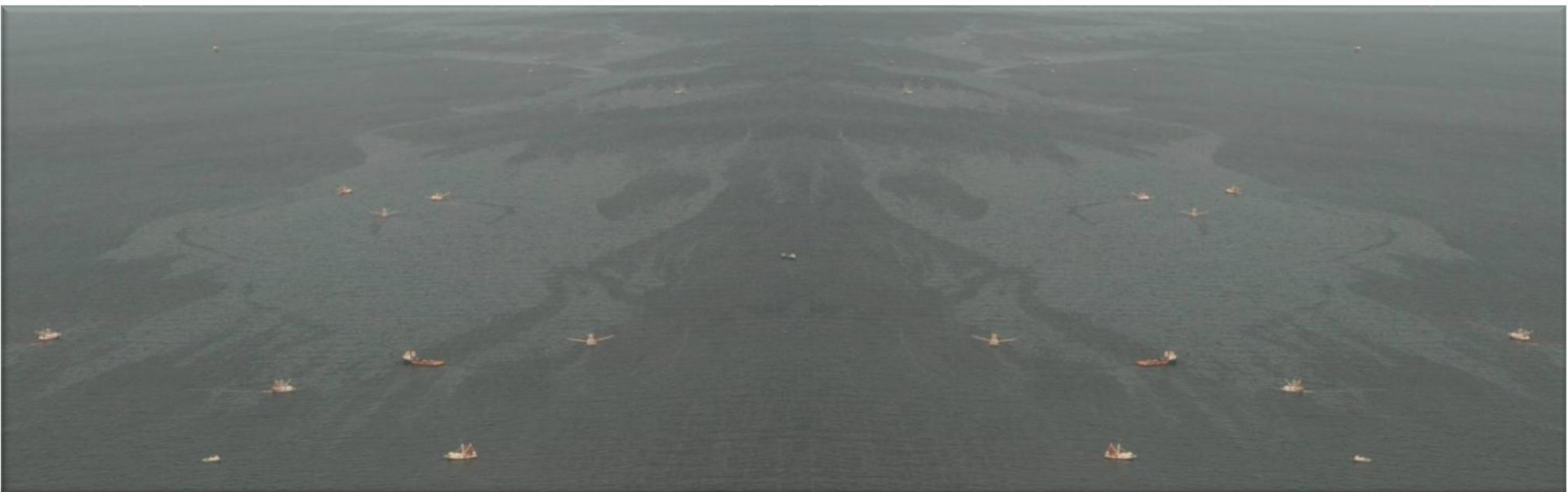
Vessels of Opportunity – Oil Recovery Initial Response



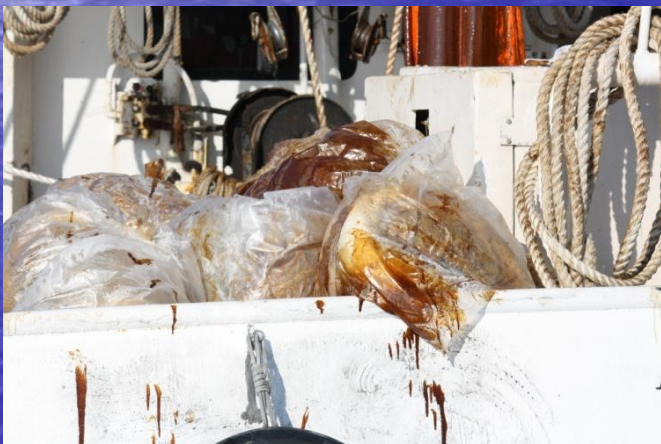
Vessels of Opportunity – Oil Recovery Initial Response



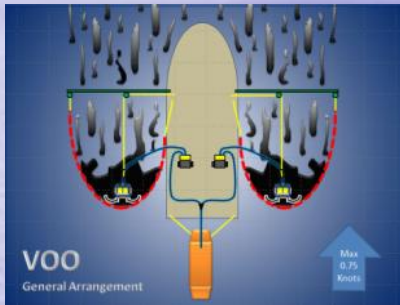
Vessels of Opportunity Oil recovery



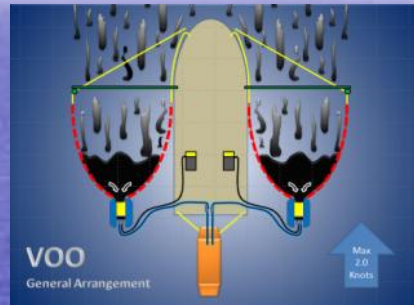
Vessels of Opportunity Oil Recovery



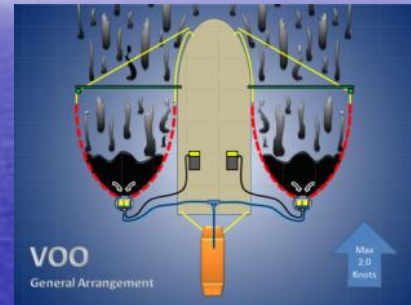
Possible Solutions



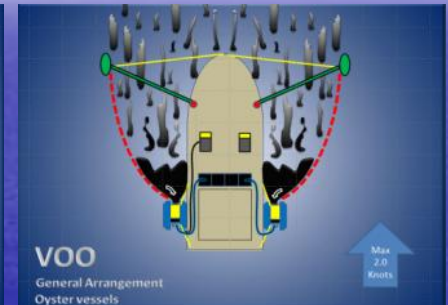
Small Shrimp Vessel



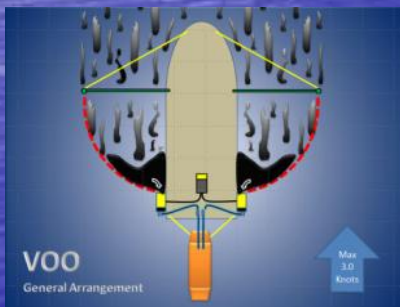
Large Shrimp Vessel



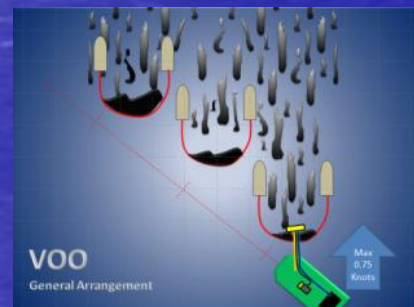
Large Shrimp Vessel



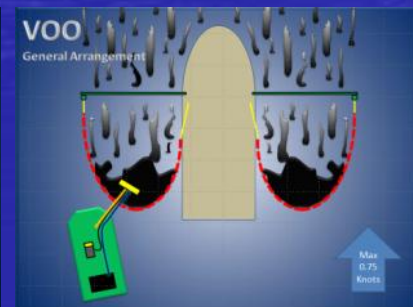
Oyster Boat



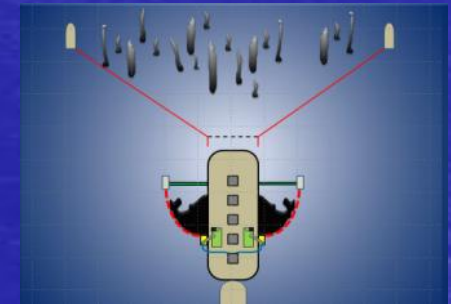
Side Collectors



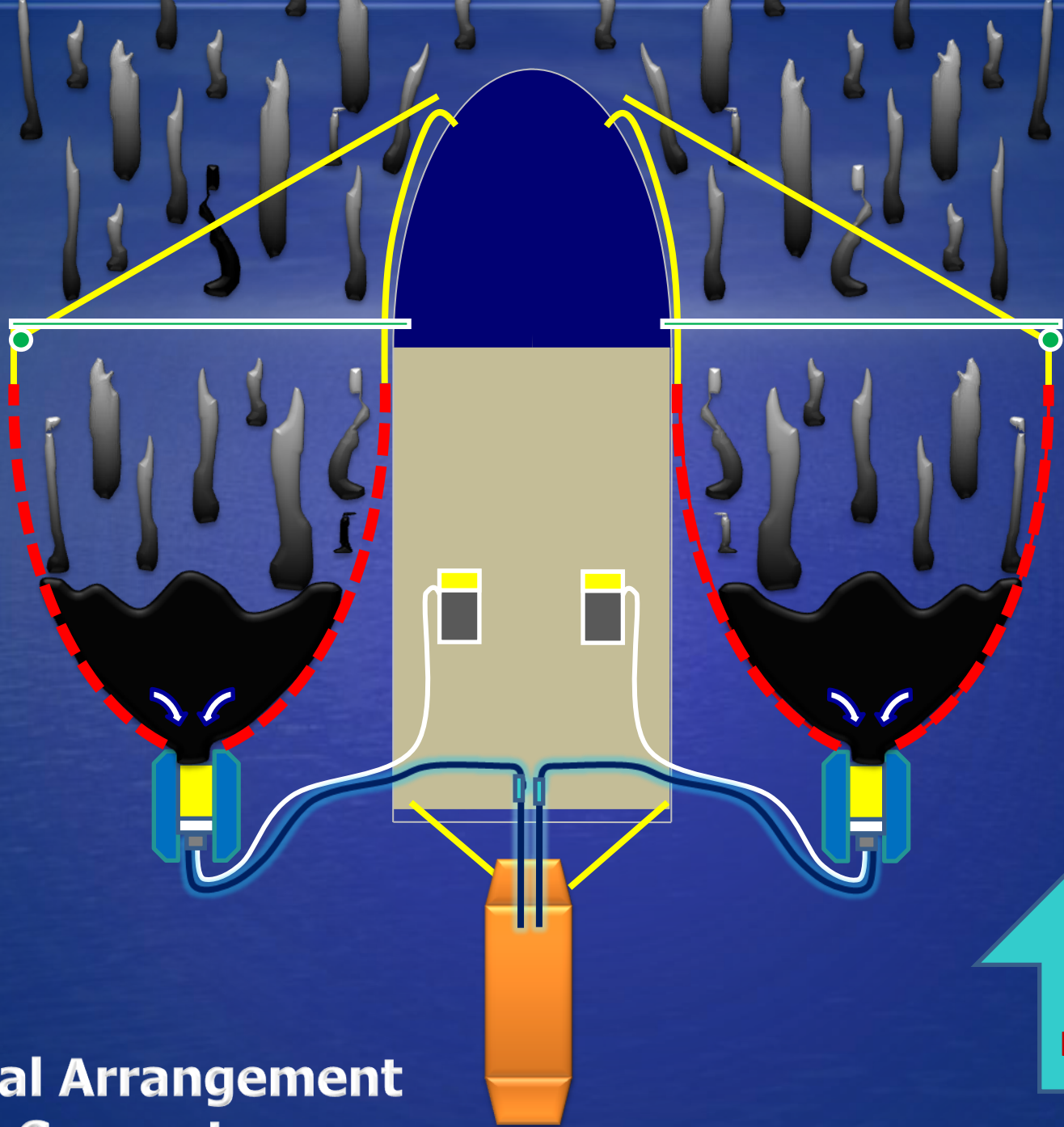
Multiple Vessels with Skimmer



Single Skimmer

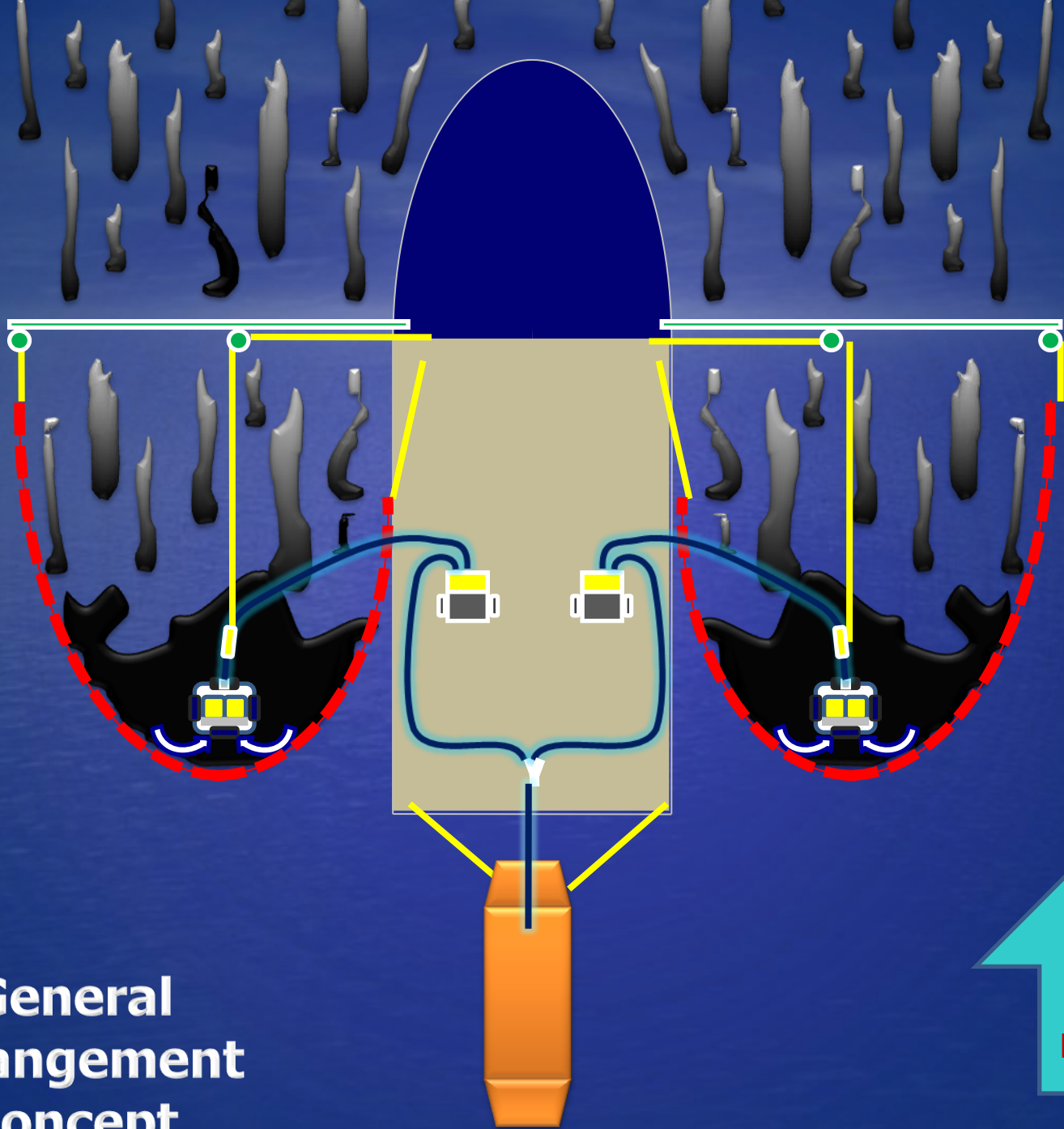


Deflection Booming



**General Arrangement
Concept**

Max
2.0
Knots



**General
Arrangement
Concept**

Max
0.75
Knots