

August 26, 2020

Remotely operated surface vehicle allows rapid oil spill response while keeping responders safe

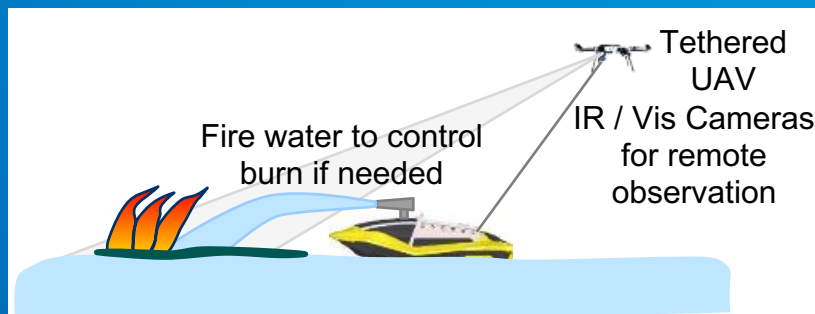
Energy lives here™

Tim Nedwed, Ph.D., P.E.
ExxonMobil

Remotely Operated Surface Vehicle (ROSV) for OSR

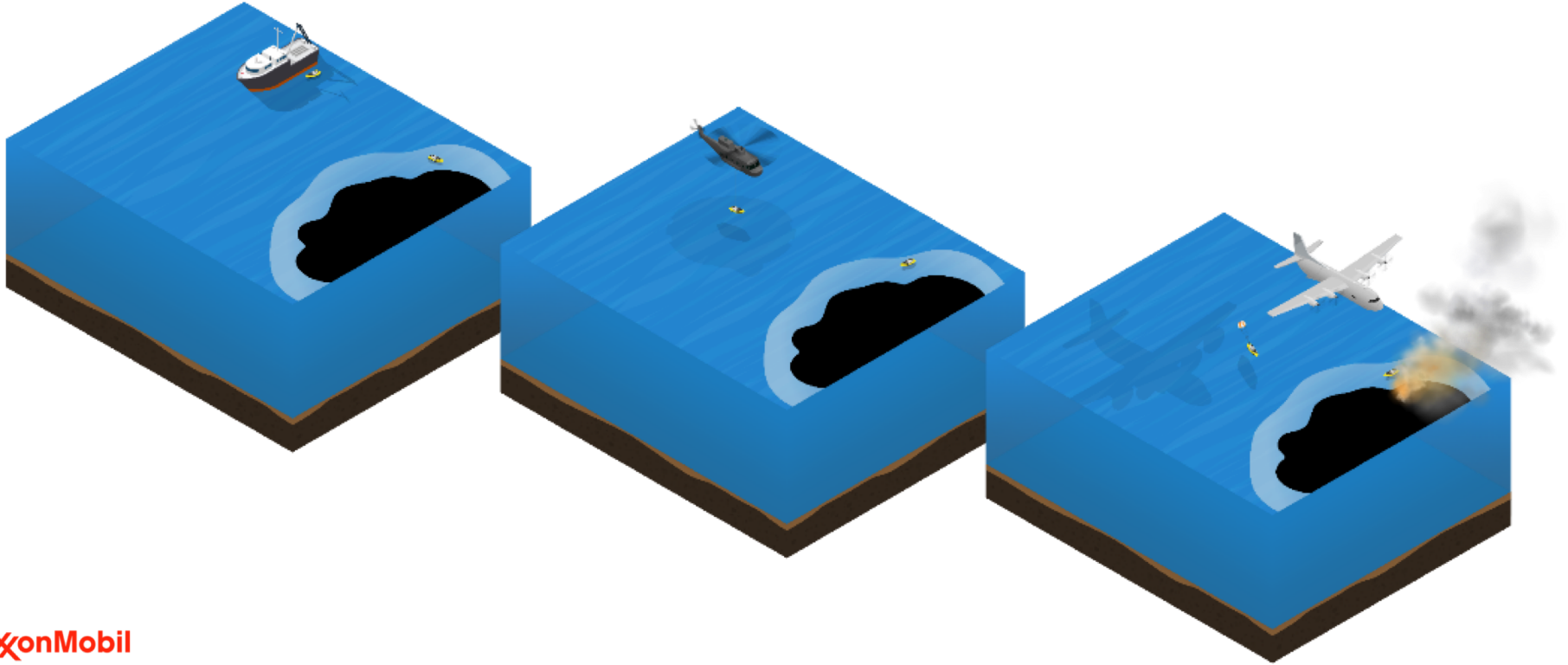
Consortia is developing a multifunctional USV for OSR

- Autonomous operation or remote (virtual reality) operator
 - GPS / long range radio / satellite communications
- Speeds up to 65 mph / 500 mile range / 12+ hrs operation
- Collision avoidance system
- Spill treating agent application / slick ignition
- Volatile organic compound monitoring
- Aerial remote sensing with tethered UAV (visible / IR / other sensor)
- 4 surface / 2 underwater / 1 360°VR cameras
- Oil Slick characterization / sampling
- Underwater Lighting
- Modular sensor platform
- 350 lbs payload capability
- Fire control using jet pumps



Remotely Operated Surface Vehicle (ROSV) for OSR

Deployable from ship, helicopter, or airplane



ROSV Photos / Video



ROSV Comms Trailer



Questions?