

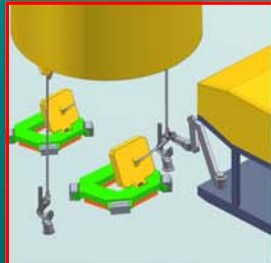
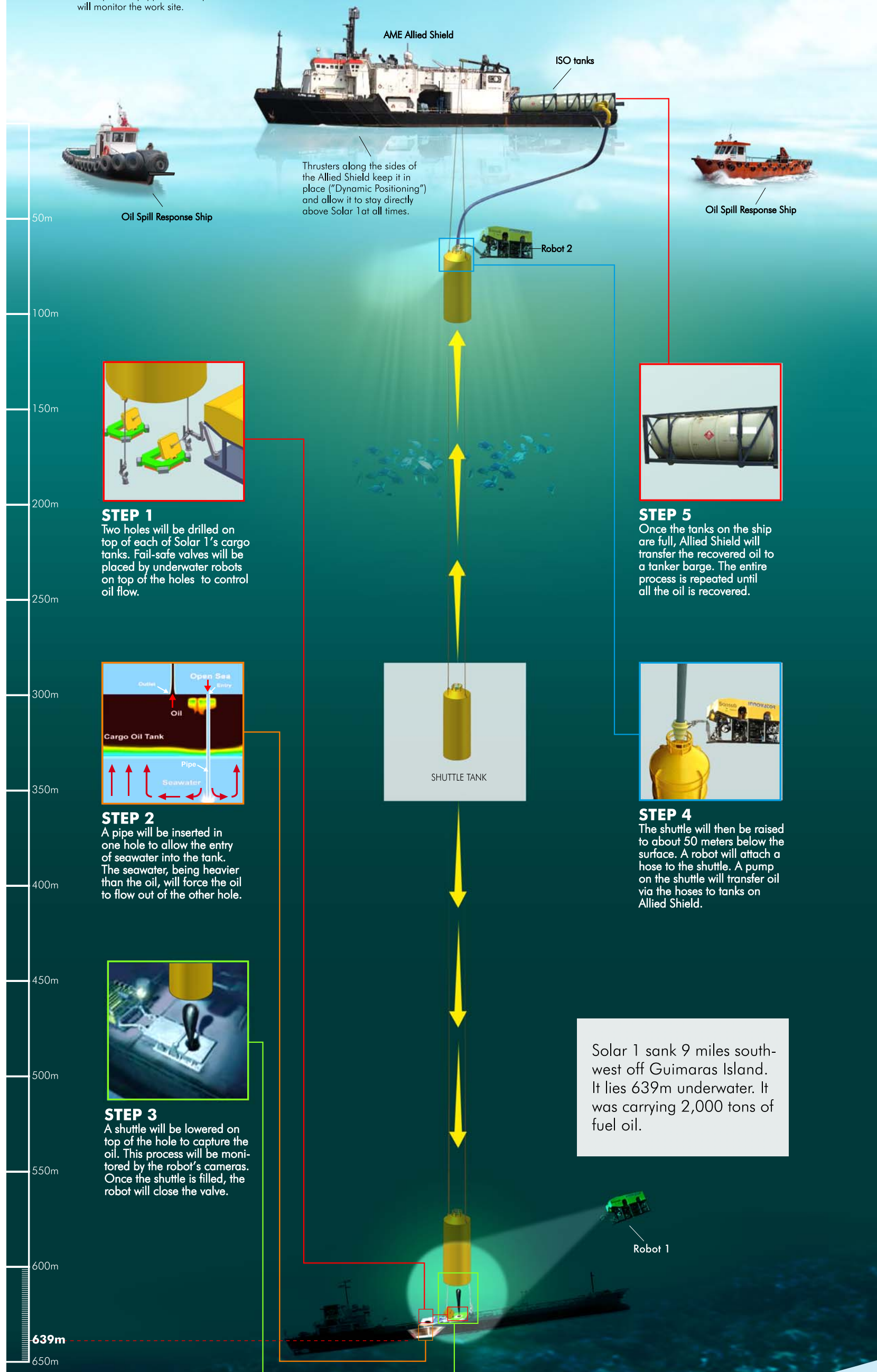
# SOLAR 1

## OIL RECOVERY PROJECT

Use of **Global Positioning Satellite** allows Allied Shield to continuously check its position relative to the sunken vessel.

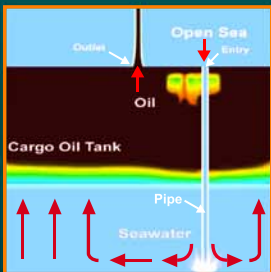


An airplane equipped with dispersants will monitor the work site.



### STEP 1

Two holes will be drilled on top of each of Solar 1's cargo tanks. Fail-safe valves will be placed by underwater robots on top of the holes to control oil flow.



### STEP 2

A pipe will be inserted in one hole to allow the entry of seawater into the tank. The seawater, being heavier than the oil, will force the oil to flow out of the other hole.



### STEP 3

A shuttle will be lowered on top of the hole to capture the oil. This process will be monitored by the robot's cameras. Once the shuttle is filled, the robot will close the valve.



### STEP 5

Once the tanks on the ship are full, Allied Shield will transfer the recovered oil to a tanker barge. The entire process is repeated until all the oil is recovered.



### STEP 4

The shuttle will then be raised to about 50 meters below the surface. A robot will attach a hose to the shuttle. A pump on the shuttle will transfer oil via the hoses to tanks on Allied Shield.

Solar 1 sank 9 miles southwest off Guimaras Island. It lies 639m underwater. It was carrying 2,000 tons of fuel oil.