



2024 Regional Task Modifications

Scout Class

Task 1: OOI Coastal Pioneer Array

- No Changes

Task 2: SMART Cables for Ocean Observing

- No Changes

Task 3: From the Red Sea to Tennessee

- **Task 3.4:** The Mexican beach pebbles will be replaced by dive weights weighing no more than 1 lb in air.

Task 4: MATE Floats!

- **Task 4.1:** Teams will not have the option to construct a vertical profiling float. Instead all teams will be given MATE-provided data to graph water temperature versus depth.

Navigator Class

Task 1: OOI Coastal Pioneer Array

- No Changes

Task 2: SMART Cables for Ocean Observing

- No Changes

Task 3: From the Red Sea to Tennessee

- **Task 3.4:** The Mexican beach pebbles will be replaced by dive weights weighing no more than 1 lb in air.

Task 4: MATE Floats!

- **Task 4.1:** Teams will not have the option to construct a vertical profiling float. Instead all teams will be given MATE-provided data to graph water temperature versus depth

Ranger Class

Task 1: OOI Coastal Pioneer Array

- No Changes

Task 2: SMART Cables for Ocean Observing

- **Task 2.1:** The temperature probe will not be located on the SMART repeater, and instead will be simulated with a poolside station with a surface and deep-water temperature probe. Teams will have access to the temperature data for the surface probe at the poolside station at all times, and once the SMART repeater has been successfully placed in the designated area and both ends of the wire are on the surface, mission judges will provide teams with access to the data for the deep water temperature probe.

Task 3: From the Red Sea to Tennessee

- **Task 3.1:** The probiotic sprinkler will be constructed from vinyl tubing and rope instead of just vinyl tubing, similar to the construction in the Scout Class irrigation task.
- **Task 3.1:** The irrigation system will not use a brass stop valve, and will instead be constructed entirely from PVC. Teams will still be required to rotate the valve handles 360° to successfully activate the irrigation system.
- **Task 3.2:** Teams choosing to transplant the brain coral autonomously will be required to submit their autonomous software program and explanation to MATE ROV Competition officials prior to the competition.
- **Task 3.4:** Sturgeon counts will be provided as a semicolon-delimited .csv file on a USB 2.0 drive. Days will be along rows of the file and receivers along the rows.
- **Task 3.4:** The Mexican beach pebbles will be replaced by dive weights weighing no more than 1 lb in air.

Task 4: MATE Floats!

- **Task 4.1:** Due to space constraints on the pool deck, teams will not be allowed to have two additional members present to deploy the float. There will be no separate float deployment station. Instead, teams will deploy their float from the same side of the pool as the ROV is deployed. There will be no dedicated personnel for the MATE Floats! task, instead any team member may work on any task, including MATE Floats!, at any time. The communication about the float will be treated identically to the ROV: team members at the pool edge can only communicate information about the status of the float while the float is at the surface.